Uso e manutenzione
Emploi et entretien
Gebrauch und Instandhaltung
Use and maintenance
Uso y manutención
Uso e manutenção

epoca



Macchina per caffè
Machine à café
Kaffeemaschinen
Coffee machine
Máquina para café
Máquina para café

- E1
- S1
- S1 TANK

RANCILIO
coffeeing the World

IT

Gentile cliente,
grazie per averci accordato la Sua fiducia.
Siamo sicuri che il prodotto che Lei ha acquistato risponderà in pieno alle Sue aspettative, come tutti gli altri articoli della produzione RANCILIO. Il prodotto che Lei si accinge ad usare è il risultato di approfonditi studi e meticolose sperimentazioni fatte dalla RANCILIO per offrirLe quanto di più funzionale, sicuro ed apprezzabile, anche sotto il profilo del design, si possa trovare sul mercato. Il libretto di istruzioni per il corretto uso e manutenzione della macchina La aiuterà a sfruttare al meglio le sue elevatissime possibilità e prestazioni.
Con l'augurio di poterLa sempre annoverare tra i nostri clienti, Le auguriamo una buona lettura.

FR

Cher Client,
Nous Vous remercions pour Votre confiance.
Nous sommes certains que le produit que Vous avez acheté correspondra entièrement à Vos désirs, comme du reste tous les articles de la production RANCILIO. Le produit que Vous allez employer est le résultat d'études approfondies et de méticuleux essais effectués par RANCILIO afin de pouvoir Vous offrir le produit le plus fonctionnel, le plus sûr et le plus remarquable, également du point de vue design, que l'on puisse trouver sur le marché. Le petit livre d'instructions pour l'emploi correct et l'entretien de la machine Vous aidera à tirer le maximum de ses grandes possibilités et performances. Nous sommes certains que nos explications sont claires et espérons, cher client, mériter Votre fidélité.

DE

Sehr geehrte Kundin/sehr geehrter Kunde,
Zuerst möchten wir Innen für das uns entgegengebrachte Vertrauen danken.
Wir hoffen, dass das von Ihnen gekaufte Produkt Ihren Erwartungen in jeder Hinsicht entsprechen wird-wie übrigens auch all unsere anderen Erzeugnisse. Das Produkt das Sie in Gebrauch nehmen werden, ist das Resultat von sorgfältigen von RANCILIO Untersuchungen und Tests, um Ihnen in Bezug auf Funktionalität, Sicherheit, Leitungsfähigkeit sowie Design ein Produkt anbieten zu können, das das Beste auf Markt befindliche ist. Das Büchlein mit den Anwiesungen für eine korrekte Bedienung und Wartung der Maschine wird Ihnen behilflich sein, das Beste aus Ihnem Gerät zu machen. Wir hoffen, dass unsere Erklärungen verständlich sind und dass Sie auch in Zukunft zu unseren Kunden zählen dürfen.
Mit freundlichen Grüssen.

EN

Dear Customer,
First of all, thank you choosing RANCILIO.
We are confident that the product you have purchased will come up to all your expectations-just as all our other products are designed to do. The product that you are about to use is the outcome of pain-staking research and tests. The Rancilio's consistency assures quite sure that the equipment we have supplied you with, is the most functional, safe and satisfactory of its kind to be found on the market, as regards both its design and its efficency. The booklet of instructions for its correct use and maintenance will help you to get the best possible service out of your machine. We trust you will find our explanations clear and we may continue, in the future, to count you among our esteemed customers.

ES

Muy estimado cliente:
muchas gracias por habernos acordado Su confianza.
Estamos seguros que el producto que Ud. ha adquirido responderà seguramente a Sus esperanzas, asi como és por todos los demás articulos RANCILIO fabrica. El producto que Ud. se apresta a utilzar és el resultado de particulares estudios y pruebas meticulosas hechas por la firma RANCILIO para ofrecerle un producto funcional, seguro y apreciable, tambien por lo que se refiere al design, seguramente uno de los mejores que Ud. pueda encontrar en comercio. El manual de instrucciones para utilizar correctamente y efectuar la manutención de la máquina, la ayudará a disfrutar a lo máximo las elevadas posibilidades y prestaciones de la misma. Mientras confiamos que Ud. siga siendo siempre Cliente nuetro, le deseamo una provechosa lectura.

PT

Prezado Cliente,
Obrigado por nos ter dado a sua confiança.
Temos certeza que o produto que Você comprou responderá totalmente as suas expectativas, como todos os outros artigos da produção RANCILIO. O produto que Você está para usar é o resultado de estudos profundos e experiências meticulosas feitas pela RANCILIO, para oferece-Ihe quanto de mais funcional, seguro e considerável, também sob o perfil do disign, que se possa encontrar no mercado. O manual de instruções para o uso correto e manutenção da máquina lhe ajudará a desfrutar ao máximo as suas elevadíssimas possibilidades e desempenhos.
Com o desejo de poder tê-lo sempre entre os nossos clientes, desejamo-lhe uma boa leitura.

EUROPEAN UNION ONLY

IT

Trattamento dei rifiuti delle apparecchiature elettriche ed elettroniche.
Smaltire il prodotto seguendo le norme vigenti relative allo smaltimento differenziato presso centri di raccolta dedicati.
Non trattare come semplice rifiuto urbano.
Per qualsiasi informazione necessaria contattare il costruttore all'indirizzo indicato nel libretto istruzioni.

Il prodotto risponde ai requisiti richiesti dalle nuove direttive introdotte a tutela dell'ambiente e che deve essere smaltito in modo appropriato al termine del suo ciclo di vita.

EN

Treatment of waste from electric/electronic equipment
Dispose of the product in accordance with current regulations concerning differentiated waste disposal in dedicated waste disposal areas.
Do not treat as simple urban waste.
For any information please contact the manufacturer at the address specified in the user manual.

The product complies with the requirements of the new directives introduced for the environmental safeguard and must be disposed of appropriately at the end of its life cycle.

FR

Traitement des ordures des équipements électriques et électroniques
Ecouler le produit conformément aux normes en vigueur concernant l'écoulement différencié auprès de centres de récolte dédiés.
Ne pas traiter comme simples ordures urbaines. Pour toute information nécessaire contacter le constructeur à l'adresse indiquée dans le manuel d'emploi.

Le produit est conforme aux caractéristiques requises par les nouvelles directives introduites pour la sauvegarde de l'environnement et doit être écoulé de façon appropriée à la fin de son cycle de vie.

DE

Entsorgung von elektrischen und elektronischen Geräten
Das ist Produkt gemäß den geltenden Normen für die Mülltrennung bei den zuständigen Sammelzentren zu entsorgen.
Nicht wie normalen Müll behandeln.
Weitere Informationen sind beim Hersteller unter der in der Gebrauchsanleitung angegebenen Adresse zu erhalten.

Das Produkt entspricht den Erfordernissen den neuen Richtlinien über den Umweltschutz, und muss an seinem Lebensende entsprechend entsorgt werden.

ES

Tratamiento de los desechos de los equipos eléctricos y electrónicos
Eliminar el producto en los centros de recolección especializados, siguiendo las normas vigentes relativas a la eliminación diferenciada.
No tratar como simple desecho urbano.
Para cualquier información necesaria, contacten al fabricante en la dirección indicada en el manual de instrucciones.

El producto responde a los requisitos demandados en las nuevas directivas introducidas para la protección del ambiente y debe ser eliminado de manera apropiada al final de su ciclo de vida.

PT

Tratamento do lixo dos aparelhos elétricos e eletrônicos
Jogar o produtos seguindo as normas em vigor relativas à coleta diferenciada em centros de coleta apropriados.
Não tratar como simples lixo urbano.
Para qualquer informação necesssária contatar o construtor no endereço indicado no manual de instruções.

O produto responde aos requisitos exigidos pelas novas diretrizes introduzidas para tutelar o ambiente e deve ser sucadato em modo apropriado ao final do seu ciclo de vida.

NL

Afvalbehandeling van de elektrische en elektronische apparatuur
Verwerk het product volgens de geldende normen m.b.t. de gescheiden afval bij de voorbestemde vuilniscentrums.
Behandel het product niet als eenvoudig stadsvuil.
Neem contact op met de constructeur op het aangegeven adres in deze handleiding voor nadere informaties.

Het product beantwoordt aan de door de nieuwe richtlijnen verlangde vereisten ingevoerd ter bescherming van het milieu en moet op passende wijze op het einde van zijn levenscyclus worden verwerkt.

DK

Behandling af affald fra elektrisk/elektronisk udstyr
Bortskaf produktet i overensstemmelse med nuværende reguleringer vedr. forskellige affaldsprodukter på deponeringssteder dedikeret til affald.
Må ikke behandles som alm. byaffald.
Kontakt producenten på den specificerede adresse i brugerhåndbogen for yderligere oplysninger.

Produktet er i overensstemmelse med de nye direktiver, introduceret for miljøforanstaltningen og skal bortskaffes på behørig vis ved slutningen af dets livscyklus.

SE

Avfallshantering av elektriska och elektroniska apparate
Nedskrota produkten genom att följa gällande normer för differentierad sanering på seriösa uppsamlingsställen.
Behandla det inte som vanligt tätortsavfall.
Vid behov av ytterligare information, var vänlig ta kontakt med tillverkaren på den adress som anges i bruksanvisningen.

Produkten motsvarar de krav som ställs i de nya miljödirektiven och den måste nedskrotas på ett lämpligt sätt i slutet av sin livscykel.

NO

Behandling av avfall fra elektrisk/elektronisk utstyr
Produktet skal avhendes i samsvar med gjeldende forskrifter angående differensiert avfallsavhending på dediserte avfallsavhendingsområder.
Det må ikke behandles som vanlig byavfall.
For videre opplysninger vennligst kontakt fabrikanten på adressen som er angitt i bruksanvisningen.

Produktet etterkommer kravene i de nye miljødirektivene og skal avhendes på en passende måte etter avsluttet bruk.

FI

Sähköisten ja elektronisten laitteiden jätteiden käsittely
Hävitä tuote noudattaen seuraavia voimassa olevia lajitellun jätteiden käsittelyä koskevia määräyksiä asianmukaiseen jätteidenkäsittelylaitokseen.
Älä käsittele sitä tavallisena kaupunkijätteenä.
Mitä tahansa tietoja varten ota yhteyttä valmistajaan ohjekirjassa olevaan osoitteeseen.

Tuote on uusien ympäristöä suojaavien direktiivien vaatimusten mukainen ja se tulee hävittää asianmukaisella tavalla sen käyttöiän päätyttyä.

GR

Επεξεργασὶα απορριμὰτων των ηλεκτρικὼνηλεκτρονικὼν συσκευὼν
Διαθὲστε το προϊὸν ακολοθὼντας τις ισχὺουσες νομοθεσὶες περὶ διαφορετικὴς επεξεργασὶας των απορριμὰτων σε ειδικὲς περιοχὲς διὰθεσης των απορριμὰτων. Μη τα διαχειριὶζεστε ως απλὰ αστικὰ απὸβλητα.
Για οποιαδὴποτε πληροφρὶα, επικοινωνὴστε με τον κατασκευαστὴ στη διὲυθυνση που αναφὲρεται στο εγχειρὶδιο των οδηγιὼν.

Το προϊὸν τηρεὶ τις προϋποθὲσεις που προβλὲπουν οι νὲες οδηγὶες αναφορικὰ με την προστασὶα του περιβὰλλοντος και πρὲπει να διατεὶθεται με τον κατὰλληλο τρὸπο μετὰ το τὲλος της χρὴσης του.

SK

Zaobchádzanie s odpadmi z elektrických / elektronických zariadení
Výrobok likvidujte podľa súčasných predpisov o likvidácii triedeného odpadu na k tomu určených skládkach.
Nezaobchádzajte s ním ako s bežným komunálnym odpadom.
Ak potrebujete akékoľvek informácie, kontaktujte, prosím, výrobcu na adrese uvedenej v návode na použitie.

Výrobok zodpovedá požiadavkám nových smerníc zavedených pre ochranu životného prostredia a zlikvidovať sa na konci svojej životnosti musí príslušným spôsobom.

HU

Az elektromos és elektronikai készülékek hulladékkezelése
A terméket az erre a célra kijelölt gyűjtőhelyekre adja le követve a szelektív hulladékgyűjtéssel kapcsolatos jelenlegi jogszabályokat.
Ne kezelje közönséges városi hulladékként.
Bárminemű információért forduljon a gyártóhoz, melynek címét a használati útmutatóban találja.

A termék megfelel a környezet védelme érdekében újonnan bevezetett irányelvek követelményeinek és ennek megfelelően kell kezelni az élettartamának végeztével.

CZ

Zacházení s odpady z elektrických / elektronických zařízení
Výrobek likvidujte podle současných předpisů o likvidaci tříděného odpadu na k tomu určených skládkách.
Nezacházejte s ním jako s běžným obecním odpadem.
Potřebujete-li jakékoli informace, kontaktujte prosím výrobce na adrese uvedené v návodu pro použití.

Výrobek odpovídá požadavkům nových směrnic zavedených pro ochranu životního prostředí a zlikvidovat se na konci své životnosti musí příslušným způsobem.

ET

Elektri- ja elektronseadmete jäätmete töötlemine
Tootest lahtisaamist peab läbi viima vastavalt käibivatele eeskirjadele, mis käsitlevad jäätmetest eristatud lahtisaamist selleks mõeldud jäätmetest lahtisaamise alades.
Mitte töödelda nagu tavalisi majapidamisjäätmeid.
Mistahes informatsiooni saamiseks pöörduge palun tootja poole aadressil, mis on märgitud kasutaja käsiraamatus.

Toode vastab uuetele nõutele, mis on esitletud keskkonna kaitsmiseks ja sellest peab reeglipäraselt lahti saama selle elutsükli lõpus.

LT

Kur išmesti elektros \ elektroninės įrangos atliekas.
Šalinkite įrangos atliekas atitinkamai esamų taisyklių, kurios liečia tokios rūšies atliekas apie specialias atliekų kaupimo vietas.
Nemeskite atliekas į paprastus miesto šiukšlių konteinerius. Papildomos informacijos kreipkitės į gamintoją nurodytu vartotojo instrukcijoje adresu .

Šis produktas atitinka įvestos ekologiniam saugumui naujos direktyvos reikalavimams ir turi būti sunaikintas pasibaigus jo atitikties terminui.

SL

Obdelava odpadkov električnih in elektronskih naprav
Odlaganje izdelkov je potrebno vršiti v skladu z veljavnimi predpisi v zvezi z selektivnim odlaganjem odpadkov v centrih za zbiranje odpadkov ki so temu namenjeni. Ne odlagajte ga kot običajne smeti.
Za kakršnokoli informacijo kontaktirajte proizvajalca na naslovu, ki je naveden v priročniku z navodili.

Izdelek odgovarja zahtevam novih smernic, ki so uvedene zaradi zaščite življenske sredine in mora biti odložen na ustrezen način po koncu življenjske dobe.

PL

Postępowanie z odpadami pochodzącymi z urządzeń elektrycznych/ elektronicznych
Produkt musi zostać poddany utylizacji zgodnie z obowiązującymi przepisami dotyczącymi segregowania odpadów w specjalnie do tego wyznaczonych miejscach. Nie wyrzucać razem ze zwykłymi odpadami miejskimi.
W celu uzyskania jakichkolwiek informacji proszę skontaktować się z producentem pod adresem podanym w instrukcji obsługi dla użytkownika.

Ten produkt odpowiada wymogom zawartym w nowych dyrektywach wprowadzonych w celu ochrony środowiska i po zakończeniu cyklu eksploatacji musi zostać zutylizowany we właściwy sposób.

LV

Kā utilizēt elektrisko/elektronisko iekārtu atkritumus
Iekārtu atkritumus nepieciešams utilizēt atbilstoši spēkā esošajiem noteikumiem, kuri reglamentē dažādu veidu atkritumu utilizēšanu tikai speciālajās atkritumu konteineros. Nemetiet šos atkritumus parastajos kopējos pilsētas atkritumu.
Lai saņemtu jebkuru informāciju, griezieties pie ražotāja, kura adrese uzrādīta ekspluatācijas instrukcijā.

Dotais produkts atbilst jaunās direktīvas prasībām, kura attiecās uz ekoloģisko drošību, un tas ir atbilstošā kārtībā utilizējams pēc tā, kad nobeigsies tā derīguma termiņš.

CE

RANCILIO

coffeeing the World

20010 Villastanza di Parabiago (MI)
Viale della Repubblica 40

DICHIARAZIONE DI CONFORMITA' CE - DECLARATION DE CONFORMITE CE
EG-KONFORMITÄTSERKLÄRUNG - EC DECLARATION OF CONFORMITY
DECLARACIÓN DE CONFORMIDAD CE - DECLARAÇÃO DE CONFORMIDADE CE

Noi **RANCILIO** Macchine per caffè S.p.A.

Dichiariamo sotto la nostra responsabilità che il prodotto: **Macchina per caffè per uso professionale**
Déclarons, sous notre responsabilité, que le produit : **Machine à café d'utilisation professionnel**
Wir erklären auf unsere Verantwortung, daß das Produkt: **Kaffeemaschine für Beruflichgebrauch**
Declare under our responsibility that the product: **Espresso coffee makers for commercial use**
Declaramos bajo nuestra responsabilidad que el producto: **Máquina para café de uso profesional**
Declaramos sob a nossa responsabilidade que o produto: **Máquina para café para uso profissional**

al quale è riferita questa Dichiarazione, secondo quanto prescritto dalle direttive specifiche:
à laquelle se réfère cette déclaration, selon les prescriptions des directives spécifiques.
auf das sich diese Erklärung bezieht, Entsprechend der Vorschriften der spezifischen Richtlinien.
to which this declaration relates is, according to the provisions of the specific directives:
al cual se refiere esta Declaración, de acuerdo con lo prescrito por las específicas directivas:
ao qual se refere esta Declaração, segundo quanto prescrito pelas específicas diretrizes:

98/37/CE
Direttiva macchina - Direttiva machine - Richtlinie Maschine - Makers directive - Directiva máquina - Diretriz da máquina:

73/23/CEE, 93/68/CEE
Direttiva Bassa Tensione - Direttiva Basse Tension - Niederspannungsrichtline - Low Voltage Directive - Directiva Baja Tensiòn - Diretriz Baixa Tensão:

89/336/CEE, 93/68/CEE, 92/31/CEE
Direttiva EMC - Direttiva EMC - Richtlinie EMC - EMC Directive - Directiva EMC - Diretriz EMC

97/23/CE
Direttiva attrezzatura a pressione (PED)-Directive sur les appareillages sous pression (PED)-Richtlinie für unter Druck stehende Geräte (PED) Pressure device directive (PED) - Directiva equipos de presión (PED) - Diretriz aparelhagem de pressão (PED)

è conforme alle seguenti norme: - conforme aux normes suivantes :
In Übereinstimmung mit den folgenden Normen: - it complies with the following norms:
es conforme a las siguientes normas: - É conforme as seguintes normas:

EN 60335-1, EN 60335-2-75, EN 55014-1, EN 55014-2, EN 61000-3, EN 61000-4, EN 50366
Norme EN armonizzate - Normes EN harmonisées - Harmonisierte EN-Norme - Harmonized EN norms - Normas EN armonizadas - Normes EN Harmonia

Il presidente - The president
Sig. Giorgio Rancilio

La presente dichiarazione perde la sua validità se la macchina viene modificata senza la nostra espressa autorizzazione.
La présente déclaration perd sa validité dès lors que la machine est modifiée sans notre expresse autorisation.
Die vorliegende Erklärung verliert ihre Gültigkeit, wenn die Maschine ohne unsere ausdrückliche Genehmigung verändert wird.
The present declaration will become invalid should the machine be modified without our specific authorization.
La presente declaración pierde su validez si la máquina es modificada sin nuestra expresa autorización.
A presente declaração perde a validade se a máquina é modificada sem a nossa expressa autorização.

Descrizione attrezzatura a pressione-Description de l'appareillage sous pression-Beschreibung der unter Druck stehenden Geräte-
Pressure device description-Descripción de los equipos de presión - Descrição dos equipamentos de pressão

	Pressione - Pression Druck - Pressure Presión - Pressão	Temperatura - Température Temperatur - Temperature Temperatura - Temperatura	Fluido - Fluide Flüssig - Fluid Fluido - Fluído	Capacità lt-Capacité lt-Fähigkeit lt- Capacity lt-Potencia lt- Potência it
Caldaia - Chaudière Kessel - Boiler Caldera - Caldeira	0,18/1,8 Mpa/bar	131,2 C°	Acqua/Vapore - Eau/Vapeur Wasser/Dampf - Water/Steam Agua/Vapor - Água/Vapor	4

	Pressione - Pression Druck - Pressure Presión - Pressão	Temperatura - Température Temperatur - Temperature Temperatura - Temperatura	Fluido - Fluide Flüssig - Fluid Fluido - Fluído	Capacità-Capacité Fähigkeit -Capacity Potencia-Potência	Numero scambiatore -Numéro de l'échangeur Nummer des Austauschers- Exehanger number-Número intercambiador Número Intercambiador
Scambiatore -Echangeur Austauscher -Exchanger Intercambiador Intercambiador	1.2/12 Mpa/bar	131,2 C°	Acqua - Eau Wasser- Water Agua - Água	0.095	1

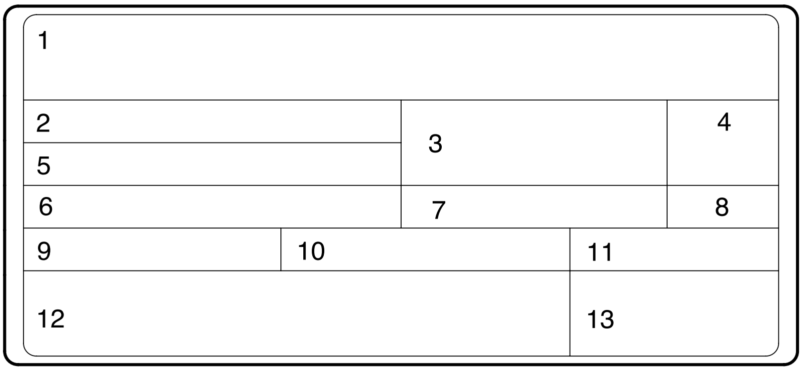


Fig. 1

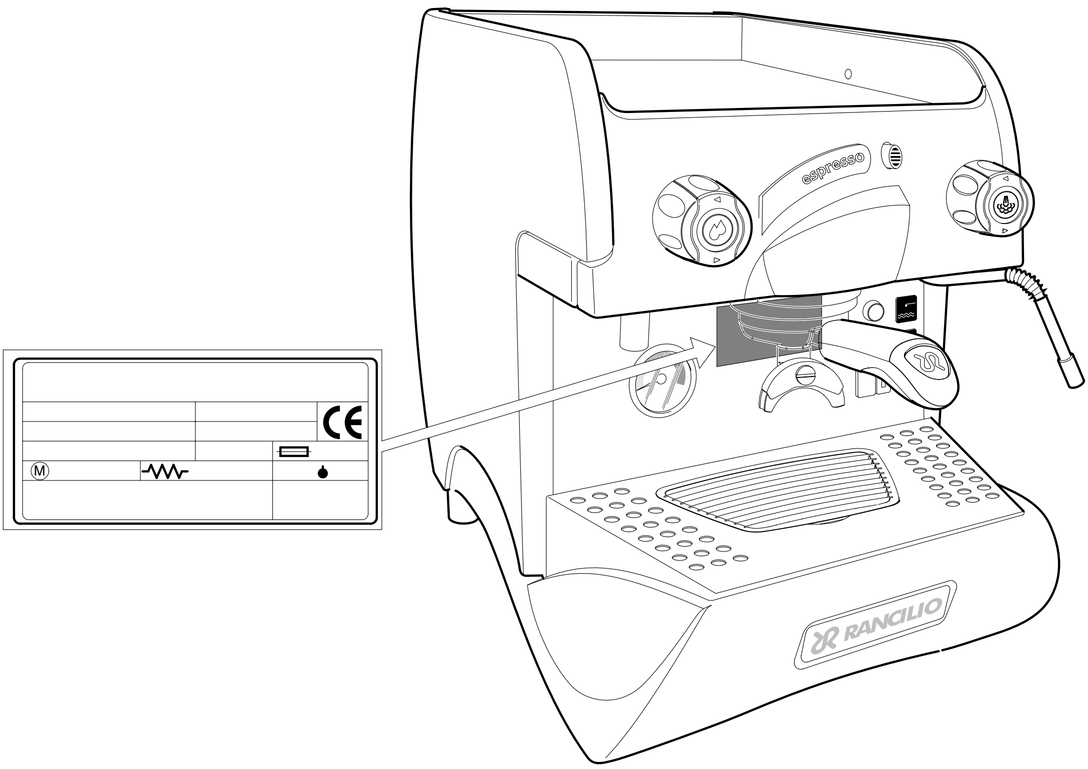
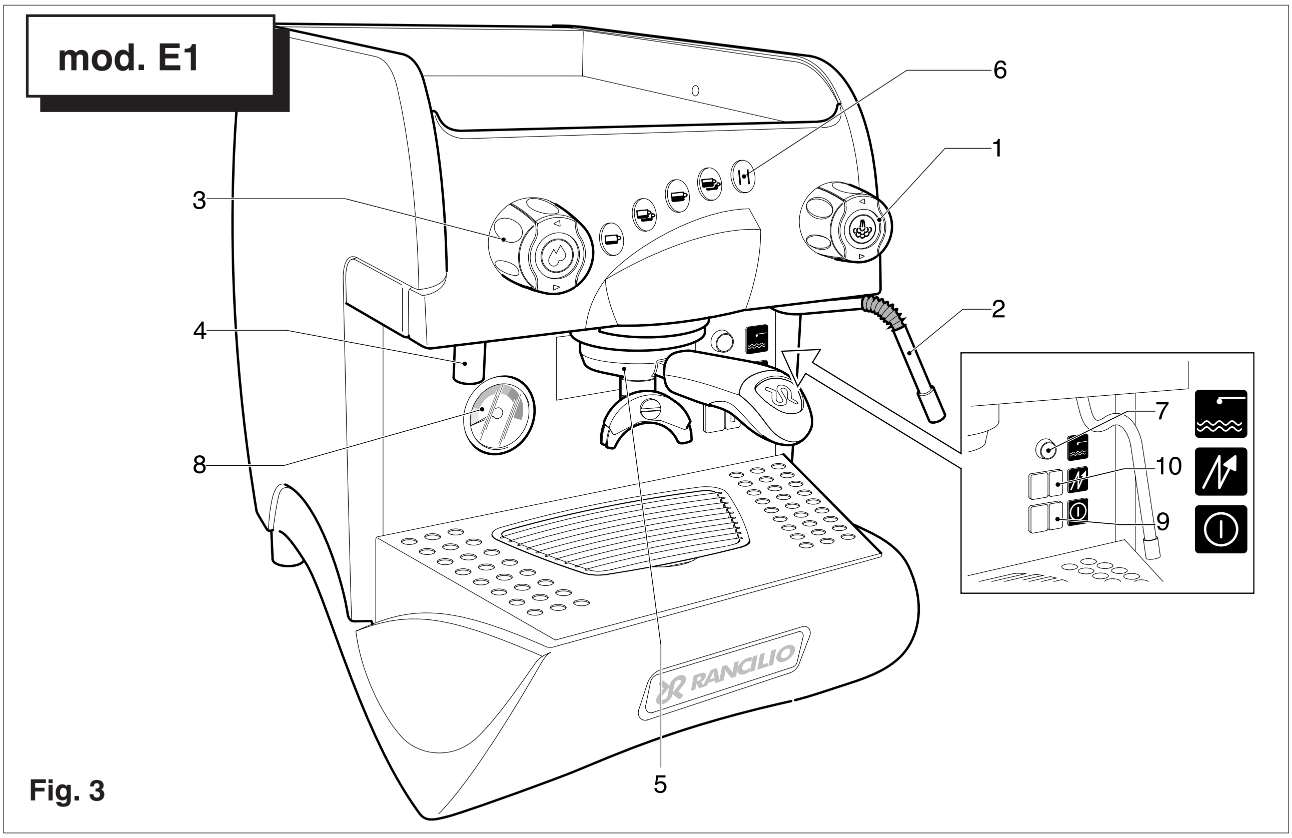
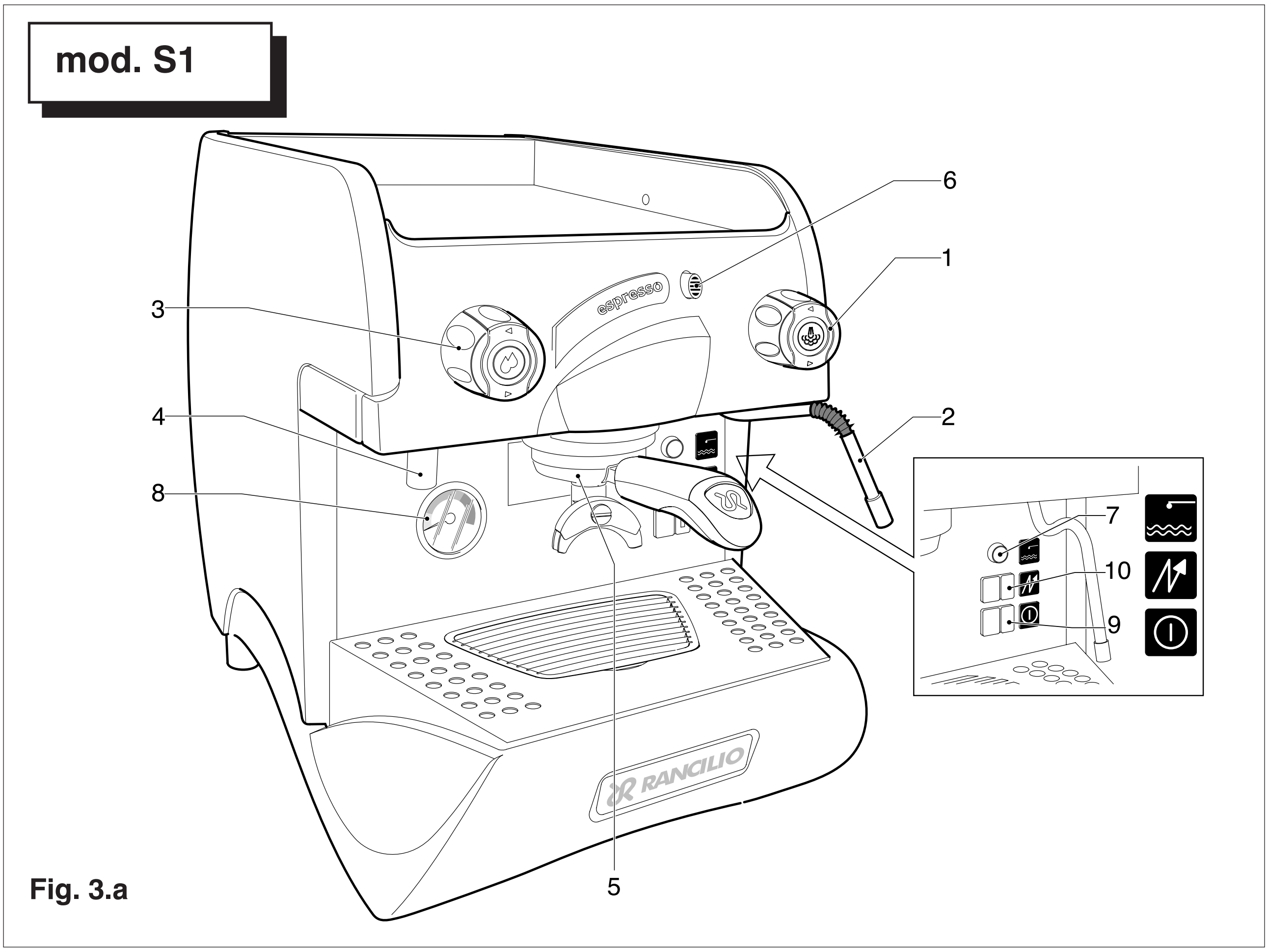


Fig. 2


mod. E1
6
1
3
2
4
7
10
8
9
5
RANCILIO
Fig. 3


mod. S1
6
1
3
espresso
4
2
8
7
10
9
5
RANCILIO
Fig. 3.a

mod. S1 TANK

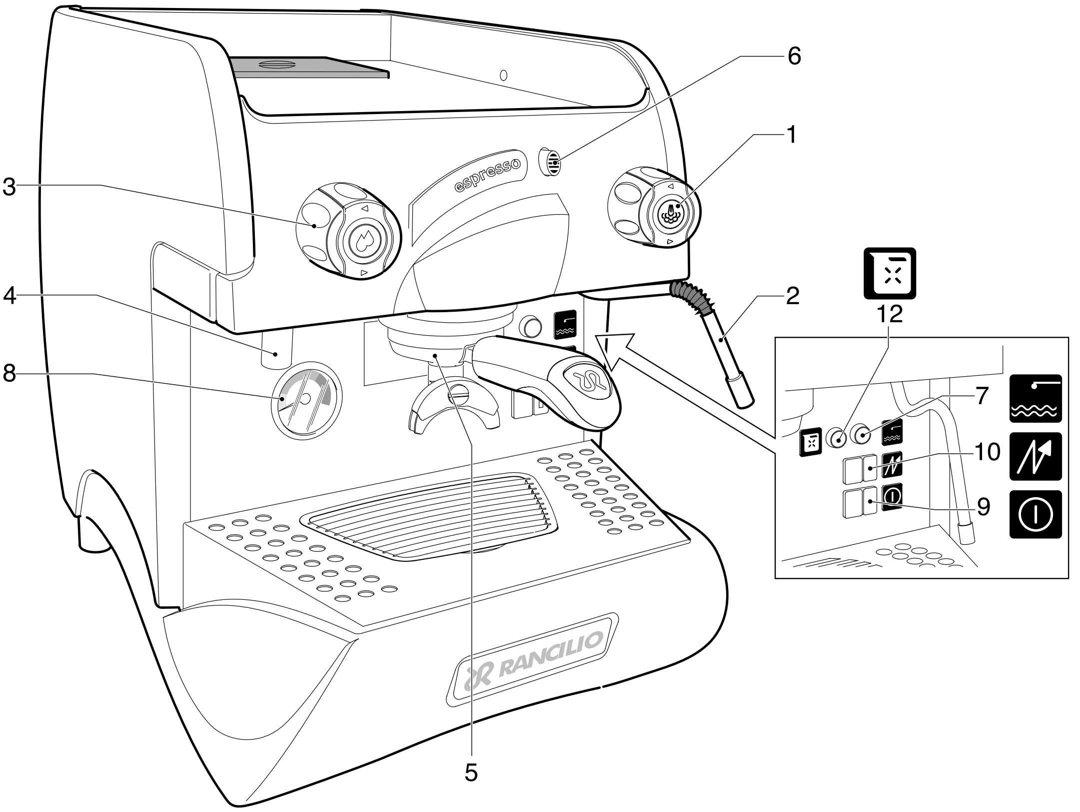


Fig. 3.b

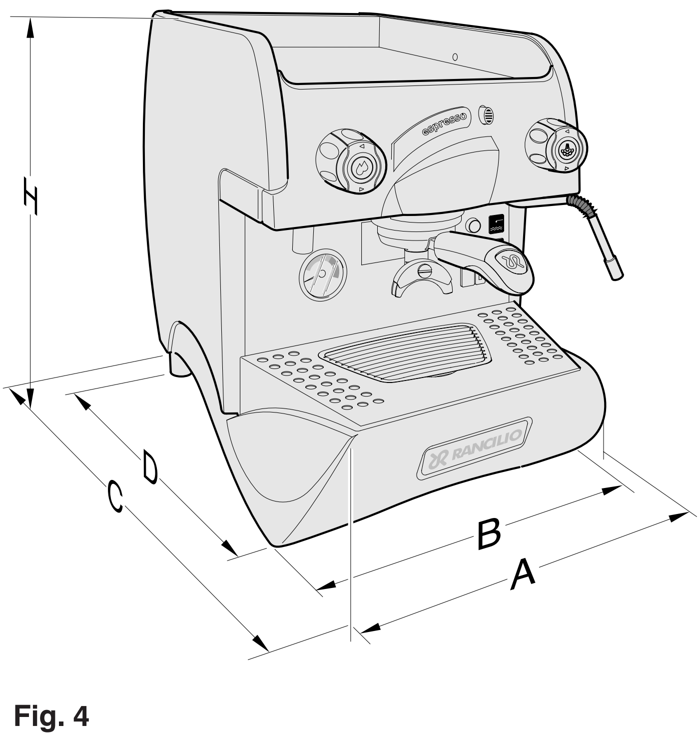


Fig. 4

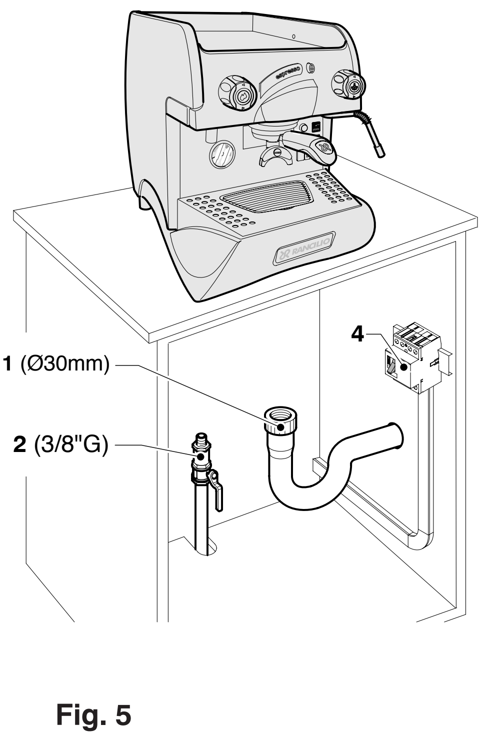
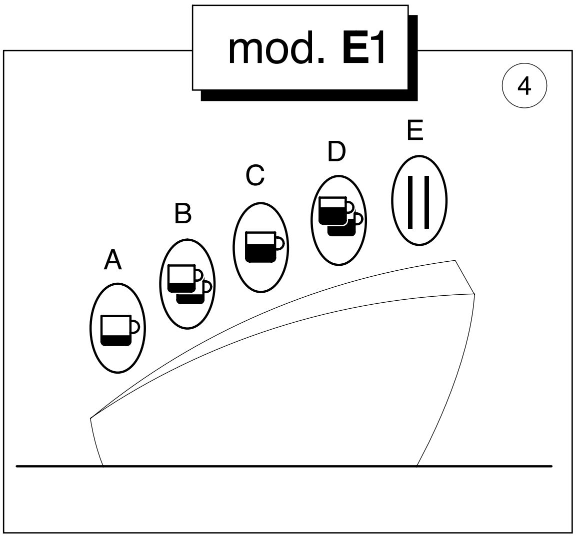
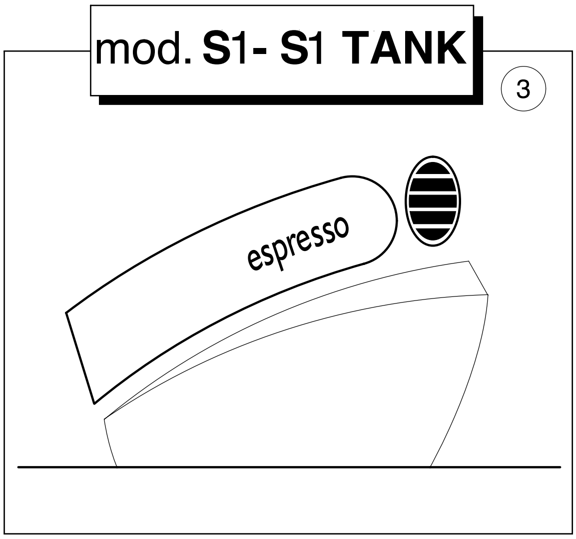
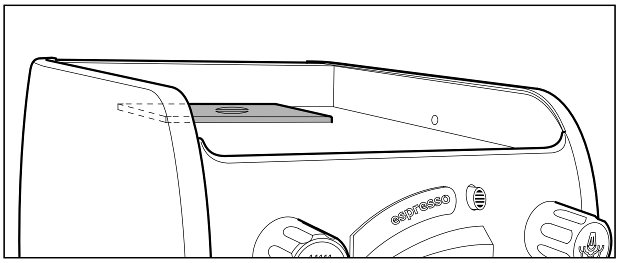


Fig. 5





mod. **S1 TANK**



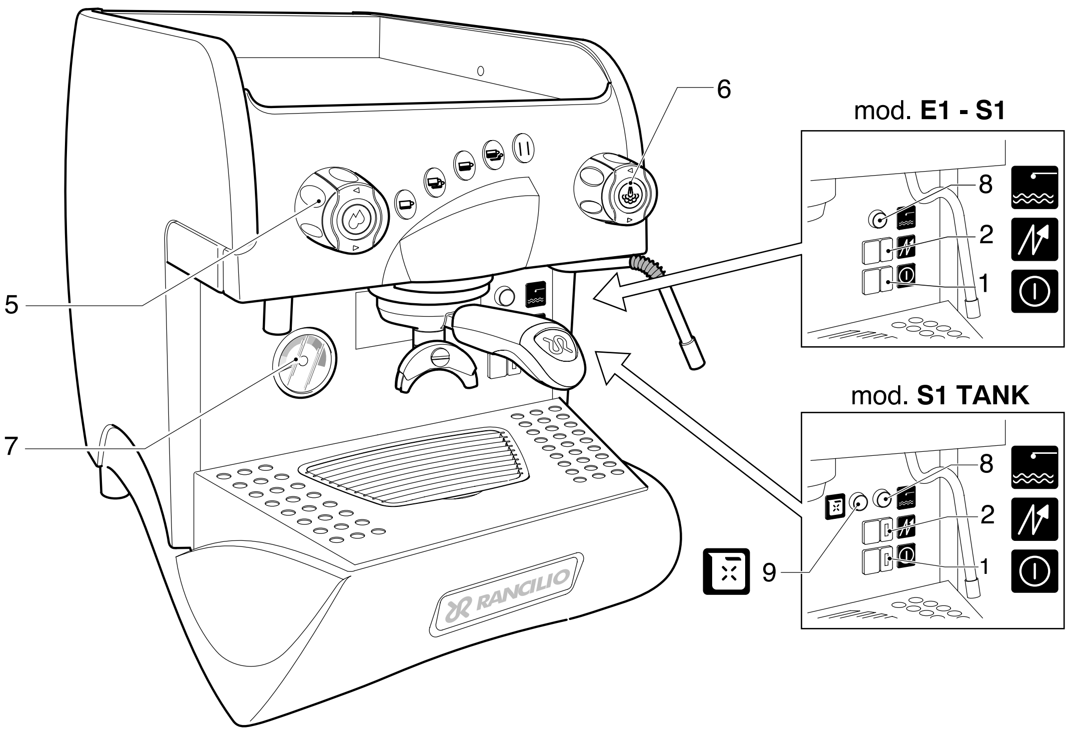


Fig. 6

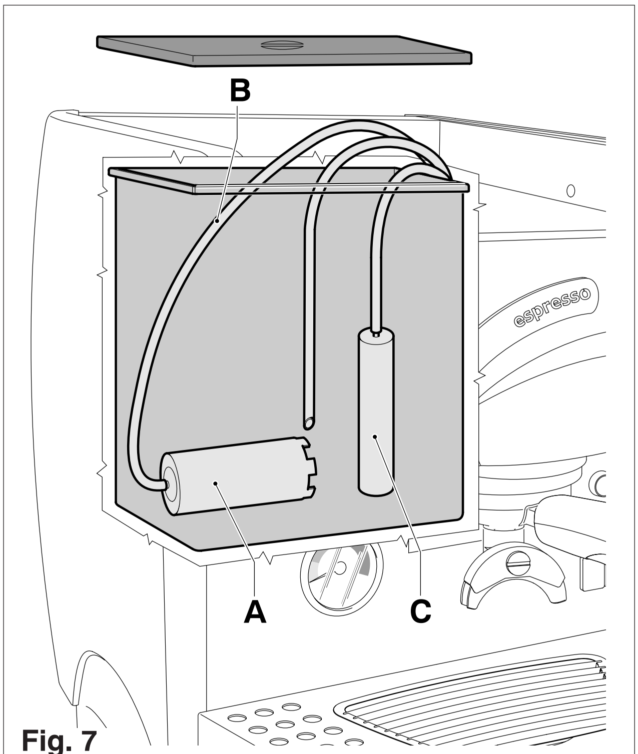


Fig. 7

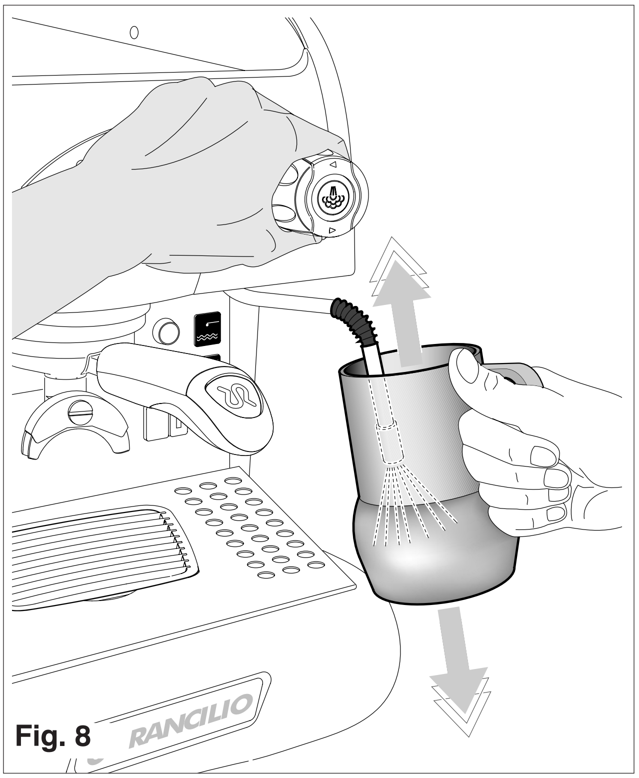
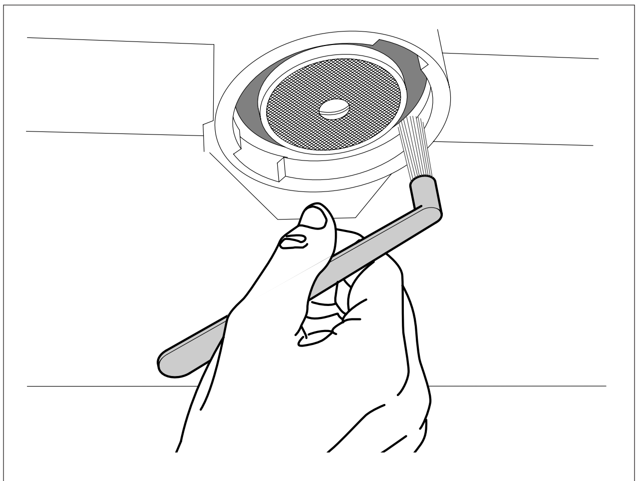


Fig. 8


Fig. 9

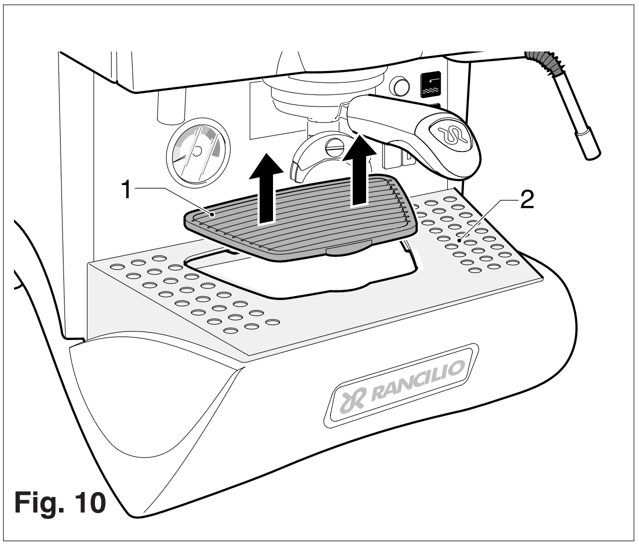


Fig. 10

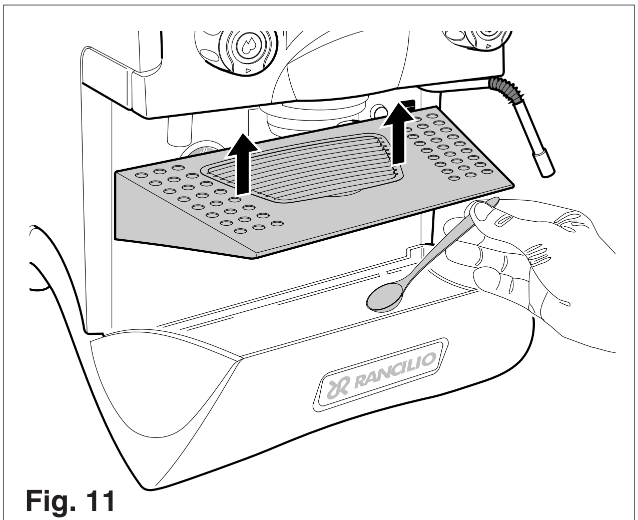


Fig. 11

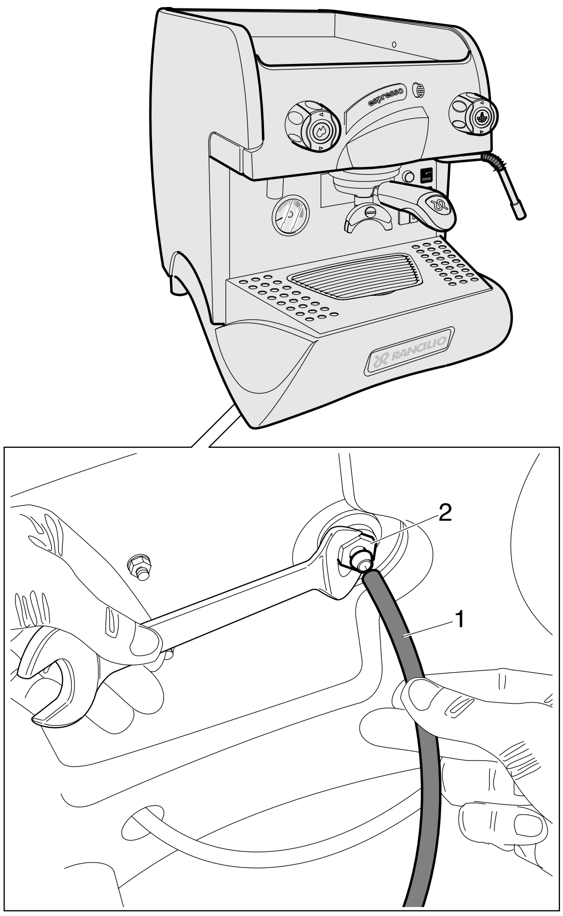


Fig. 12

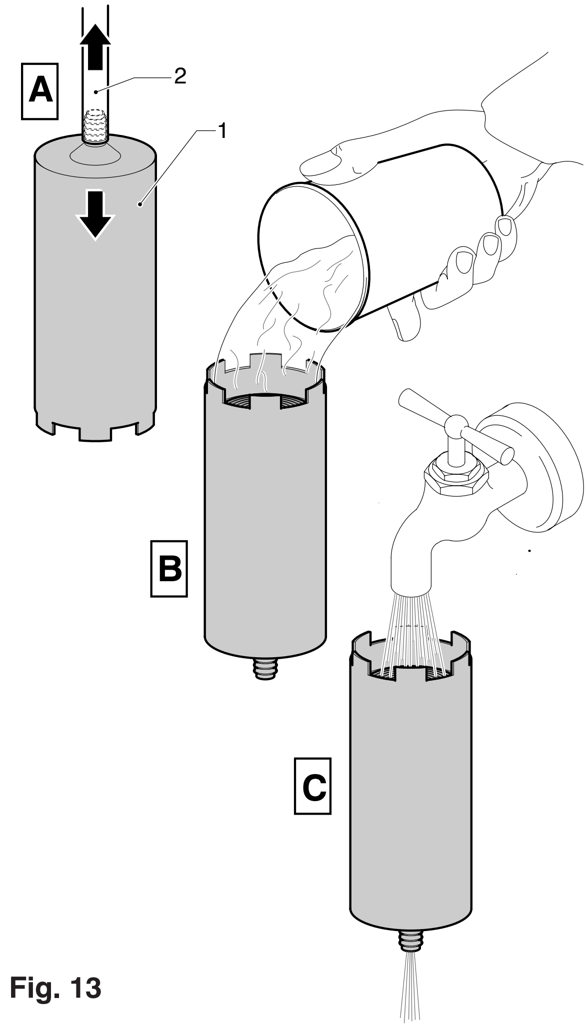
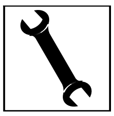


Fig. 13



The operations marked with this symbol are to be undertaken exclusively by an installation technician



The operations marked with this symbol are to be undertaken by the user.

EN ENGLISH

CONTENTS

NAME: **Coffee machine, EPOCA series**

MODEL: **E1 - S1 - S1 TANK**

VERSIONS: **1 GROUP**

The label illustrated on the EC Declaration of Conformity of this instruction manual corresponds to the identification label placed on the machine (Fig.2).

Label identification (Fig.1):

1 Manufacturer
2 Model and version
3 Voltage
4 EC conformity mark (if required)
5 Serial number
6 Boiler data
7 Machine total absorption
8 Protection level
9 Motor power
10 Heating element power
11 Frequency
12 Conformity marks
13 Year of manufacture

Symbols

⚠ *Warning signal. The instructions which refer to this signal must be followed with great care in order to avoid accidents or damage to the machine*.

This manual is an integral and essential part of the product and must be delivered to the user. The warnings contained in it must be read carefully, as they supply important indications relating to the safety of installation, use and maintenance. Keep this manual for future reference.

1. GENERAL SAFETY RULES

- Don't leave the packing elements (plastic bags, expanded polystyrene, nails, cardboard, etc.) within the reach of children, as these elements are potential sources or danger.
- Check that the data on the machine corresponds to that of the electrical supply network, before connecting the equipment.
- Adaptors, multiple sockets and /or extensions must not be used.
- In doubt, request an accurate control of the plant by qualified personnel. The electric plant must be provided with the following safety devices:
  - efficient earth connection;
  - section of conductors suitable for absorption capacity
  - efficient earth leakage protection circuit breaker.
- Install the machine on a water repellent surface (laminate, steel, ceramic, etc.) away from heat sources (oven, cooking stove, fireplace, etc.) and in conditions in which the temperature may not go below 5°C. KEEP WARM.
- Do not leave the machine exposed to atmospheric agents or place them in damp rooms such as bathrooms.
- Do not obstruct the suction or dispersion grilles and do not cover with cloths, etc.
- Keep the packed machine in a dry place, not exposed to atmospheric agents and in conditions in which the temperature does not go below 5°C. Do not stack more than three items of the same kind. Do not place heavy items on the packaging.
- In an emergency, such as the breaking out of a fire, unusual noise, overheating, etc., take immediate action, disconnecting the power and closing gas and water taps.
- Only use original spare parts in order to avoid compromising the safety and proper functioning of the machine.

⚠ *Erroneous installation can cause damage to people, animals and things for which the manufacturer cannot be considered responsible*

2. DESCRIPTION

The machines in the EPOCA series have been designed to prepare express coffee and hot beverages. A positive-displacement pump inside the machine powers the heater in which the water is heated. By pressing the appropriate buttons, water is supplied to the spouts in the form of hot water or steam, according to needs.

The water to be used for the beverages is supplied directly by the water supply, pressurized by the pump and immediately heated by the steam produced by the boiler or from an incorporated tank containing a softener for softening the water by trapping calcium salts.

The machine is composed of a steel carrying structure on which the mechanical and electrical components are fitted. These are completely covered with panels made of painted polyurethane and stainless steel.

The beverages are dispensed at the front of the machine, where all the buttons, control devices and dispensers are to be found.
There is a cup-warming plate on the top of the machine.

2.1. Specifications and composition (Fig.3 - 3.a - 3.b)

	A	B	C	D	E
E1 (Fig.3)	-	ok	1	1	1
S1 (Fig.3.a)	ok	-	1	1	1
S1 TANK (Fig.3.b)	ok	-	1	1	1

Legend:

A Semiautomatic system; manual dispensing start and stop.
B Automatic system; electronic control of coffee doses dispensed.
C N. of coffee dispensing units.
D N. of steam spouts.
E N. of hot water spouts.

1 Steam tap
2 Steam spout
3 Hot water tap
4 Hot water spout
5 Coffee dispensing unit
6 Coffee dispensing button
7 Boiler water level indicator
8 Gauge
9 Power on-off switch and led
10 Switch and boiler resistance engagement light.
11 Water-tank
12 Water shortage pilot light

2.2. Machine equipment

	MOD. E1-S1	MOD. S1 TANK
1 dose filter holder	1	1
2 dose filter holder	1	1
Filters	2	2
Disk for cleaning	1	1
1 mt. supply pipe	1	-
1,5 mt. supply pipe	1	-
1,5 mt. drainage pipe	1	-
Pipe connections	1	1
Doser and presser	1	1
Instruction manual	1	1
Brush	1	1

2.3. Mechanical protective devices

The machine is equipped with the following protective devices:

- complete panelling protection of all the parts subject to heat and of the steam and hot water supplier;
- work surface provided with grill and tray to collect spilt liquids;
- expansion valve in the hydraulic system and valve on the boiler to avoid overpressure;
- nonreturn valve on the hydraulic system to avoid flowing back to the main supply.

2.4. Electric safety devices

The safety devices provided are:

- 5V low tension push buttons an the E1 control key panel;
- thermal protection on the pump motor;
- safe resistance thermal.

2.5. Aerial noise

Noise level in the working place does not usually exceed 70dB(A).

2.6. Vibrations

The machine is supplied with rubber vibration damping feet. In normal working conditions, the machine does not produce vibrations harmful to the operator and the environment.

3. TECHNICAL DATA

3.1. Dimensions and weights (Fig.4)

	MOD. E1-S1	MOD. S1 TANK
A mm	385	385
B mm	355	355
C mm	565	565
D mm	400	400
H mm	485	485
Boiler capacity in litr.	3,9	3,9
Litres water in tankt	-	2
Machine weight kg	35	28
Water inlet	3/8”	-
Ømm drainage	30	-
Packaging		
Volume m^3	0.193	0.193
Dimension LxPxH mm	495x690x575	495x690x575
Gross weight kg	40	33

⚠ *You’ll find all the technical data on electric connection, on the machine identification label Fig. 1.*

4. USE

The machine have been designed, manufactured and protected to be used to make express coffee and hot beverages (tea, cappuccino, etc.). Any other use is to be considered unsuitable and therefore dangerous.

⚠ ***The manufacturer cannot be held responsible for any damage caused to people or things due to unsuitable, erroneous or irrational use of the machine.***

The operator must always follow the indications contained in this manual. In the case of a failure or if the machine is not working properly, switch it off and do not attempt any direct repair. Refer exclusively to a service centre.

The user must not:

- touch the hot surfaces and dispensing areas;
- place liquids containers on the machine;
- put his hands under the spouts during use;
- transport the machine or carry out maintenance operations when the plug is connected or when the machine is hot;
- wash the machine with water or steam jet;
- dip completely or partially the machine in water;
- use the machine if the cable is damaged;
- touch the machine when his hands or feet are wet or damp;
- use the machine when there are children in its proximity;
- allow the machine to be used by children or unfit people;
- obstruct the suction or dispersal grilles with cloth or any other thing;
- do not use the machine when wet or very damp.

4.1. precautionary measures

This machine may only be used with foodstuffs. It cannot be used for heating liquids or grinding any other kind of product that could damage and pollute it.

The manufacturer cannot be held responsible for damage to people or things caused by unsuitable, erroneous or irrational use.

5. TRANSPORT

5.1. Packaging

The machine is delivered in a strong cardboard box with internal protection.

The packaging bears symbols which must be observed during handling and stocking of the item.

Always keep the package in a vertical position during transport. Do not turn it over or lay it on its side and avoid bumping and exposure to atmospheric agents.

5.2. Inspection on receipt

Check that the machine received corresponds to the one indicated on the delivery note, including any accessories.
Check that it has not been damaged during transport and, if so, inform the forwarder and our customer service office immediately.

The packing elements (plastic bags, expanded polystyrene, nails, cardboard, etc.) must not be left within reach of children as they are potential sources of danger. Do not dispose of the packing elements in the environment; consign them to firms authorized for their disposal.

6. INSTALLATION

The appliance is only to be installed in locations where use and maintenance is restricted to trained personnel.

The machines are fitted with height adjustable feet (only rear).

The support surface shall be levelled, dry, smooth, steady and stable and at such a height that the cup-warming surface is at over 150 cm from ground. Do not use water jets or install where water jets are used.

In order to guarantee normal operation, the machine must be installed in areas that the environmental temperature is between +5°C ÷ +32°C end humidity of not over 70%.

It does not need to be anchored to the surface and it does not require any technical operations to dampen vibrations in order to operate properly.

It is recommended to leave the area around the machine free to facilitate its use and the performance of any maintenance operations.

If the machine is wet or very damp, wait until it is completely dry before installing or using it. It is always necessary to request an accurate control to qualified service people in order to find any possible damage to the electric components.

Reserve an area near the machine for the installation of the coffee grinding and dosage machine (see relevant documentation).
The machine is usually equipped with a water softener, type DP2 or DP4, which must be connected by the user in compliance with the laws in force. Should a different softener be installed, refer to the documentation of the relevant product.
A dreg drawer should be fitted by the installer.

6.1. Connections to be made by the user.

Hook-up must be carried out by qualified personnel in full accordance with federal, state and local regulations.

6.1.1. Water supply (Mod.E1 - S1) (Fig.5)

This equipment is to be installed to comply with the applicable federal, state or local plumbing codes.

Connections must be installed close to the machine.

- Water drainage pipe 1, having a minimum internal diameter of 30 mm, equipped with a water-trap accessible for inspection.
- Water supply pipe 2, with a 3/8"G cut-off tap.

Make sure that the maximum supply pressure does not exceed 6.5 bar; otherwise, install a pressure reducer.

6.1.2. Electric supply

The machine is supplied ready for connection according to the required electrical specifications.

Before connecting the machine ensure that the plate details (fig. 1) comply with those of the electric distribution network.

The electrical connection cable must be directly connected to the connection provided according to current legislation. Ensure that the earthing system is efficient and in compliance with current legal requirements.

The earthing system and the lightening protection system must be realized in accordance with the provisions of current legislation.

For the supply network use a cable in compliance with standards with protective conductor (earthing wire).

For single phase power supply use a cable with 3 conductors (phase + neutral + earth).

In both cases it is necessary to provide an automatic differential switch (Fig. 6) at the start of the power cable, complete with magnetic release elements in accordance with the identification plate details (Fig. 1). The contacts must have an opening of equal or over 3 mm and with dispersed current protection of 30 mA.
Remember that each machine must be fitted with its own safety elements.

WARNING:
Should the power supply cable be damaged it is to be replaced by the manufacturer or by its technical assistance service or by person with equivalent qualification, in order to prevent any risks.

6.2. Connections

● Place the machine on the horizontal surface previously prepared.

Before connecting, thoroughly wash the mains water pipes:

- Leave the water supply taps running at full pressure for several minutes.
- Connect to the mains water supply.
- Connect the machine to the socket.

Thoroughly wash all the water pipes of the machine:

- Leave the water supply taps running at full pressure.
- Switch on main switch 1: wait until the boiler fills up to the level set.
- Switch on main switch 2 to begin heating the water in the boiler.
- Operate each unit in order to allow the water to escape for about one minute; repeat the operation twice.
- Deliver steam from the steam jets for about one minute.
- Deliver hot water for about one minute; repeat the operation twice.
- Switch off switches 1 and 2.
- Empty the water from the boiler: see point 10.3

IMPORTANT
Should the machine not deliver water for over 24 hours, wash the internal components before beginning work, repeating the operations as described above

ATTENTION
Please be informed that in order to avoid pressure falls during the boiler filling we fitted into the filling solenoid valve a restription Ø 1.25 mm.

If, during the installation, the machino get in security mode (the on/off selection on the touch pad will flash) reset the machine using the main switch.

7. OPERATION

7.1. Controls (Fig.6)

1 Main switch.
Two-position switch with led.
Turn on the switch, led on, the machine is turned (apart from the boiler) and the pump is turned on to fill the boiler;

2 Boiler resistance switch.
Two-position switch with led.
On activating the switch, the led comes on, and power is supplied to the resistance for the boiler water.

3 Coffee dispenser switch (mod. S1 - S1 TANK)
On pressing the button, continuous coffee dispensing begins and the led comes on.
On re-pressing the switch, the coffee delivery stops and the led goes out.

4 Electronic coffee delivery button panel.(mod. E1). Five buttons with relative led:

A Press the button for a second, led on, release button; a small coffee is dispensed.

The led turns off and dispensing ceases.

B Press the button for a second, led on, release the button; two small coffees ar dispensed from the same unit.

The led turns off and dispensing ceases.

C Press the button for a second, led on, release the button; a big cup of coffee is dispensed.

The led turns off and dispensing ceases.

D Press the button for a second, led on, release the button; two big cups of coffee are dispensed from the same unit.

The led turns off and dispensing ceases.

E Press the button for a second, led on, release the button; coffee is continuously dispensed.

Press the button for a second, led off, release button; continuous dispensing of coffee ceases.

To interrupt dispensing taking place by pressing **A-B-C-D**, hold button **E** down until the relative led turns off.

5 Hot water supply tap
Tap: turn in an anticlockwise direction to open and clockwise to close.

6 Steam supply handwheel.
Tap: turn in an anticlockwise direction to open and clockwise to close.

7.2. Control instruments (Fig.6)

7 Gauge with mobile needle on a fixed dial with a scale and colour indicator areas.
Visual control of the boiler pressure.

8 Boiler water level indicator

9 Tank water level indicator (Mod.S1 TANK)

7.3. Starting up (Fig.6)

Model S1

- Turn on the water supply tap 2 (Fig.5).

- Turn on main switch 1.
  The pump for boiler filling will activate .
  Orange LED (8) ON

- When the level is reached, the pump stops, the LED switches OFF, turn the esistance switch 2; water is heated in the boiler; then, operate the unit until the water is dispensed.

- Wait for the machine to reach its working pressure, gauge needle 7, and to reach the correct thermal balance.

Model E1

- Turn on the water supply tap 2 (Fig.5).
- Turn on main switch 1 and resistance switch 2.
  The pump for boiler filling will activate
  Orange LED (8) ON
- Only after reaching the level (orange LED (8) ON) the resistances for water heating in the boiler are powered,then activate the group until water comes out.
- During the heating phase the leds of the keys switch on in sequence from left to right until the working pressure is reached.

  Only when the rated pressure is reached it is possible to adjust the dosesl.

Model S1 TANK with autonomous tan (Fig.7)

- Open the lid on the water-tank and check that the softener **A** has been inserted in the dip pipe **B**;

- Ensure that the air trap **C** has been inserted in the appropriate housing;

If the air trap is not properly positioned, the machine may not heat or properly indicate the lack of water in the tank.

- Fill the tank with 2 litres of water and close the lid; Check the LED (9 - Fig.6)

- Turn on main switch 1; the boiler is filled and is activated.
  Once the boiler is filled,turn resistance switch 2; the water is heated; then, operate the unit until the water is dispensed.

- Wait for the machine to reach its working pressure, gauge needle 7 - Fig.6, and to reach the correct thermal balance.

8. USE

The machine has a top shelf on which the cups are kept and heated, ready for use.
This is very important to obtain good coffee as the pre-warmed cup stops the coffee from growing cold too quickly.

8.1. Preparing coffee

- Unclamp the filter-holder from the dispensing unit and knock any grouts out into the drawer especially provided for this purpose, taking care not to damage the rim of the filter.

- Use the filter for 1 or 2 coffees, according to need.

- Fill the filter with the measure of coffee, level it off and press it down gently with the presser.

- Remove any ground coffee that has stuck to the rim of the filter while pressing.

If ground coffee is left on the rim of the filter, a leaktight seal is not ensured, with consequent leaking of water and coffee grounds.

- Lock the filter-holder into the dispensing unit firmly to obtain a leaktight seal.

- Place the cups under the spouts and start pouring using control 3 or button panel 4 according to model (Fig.6).

- When the coffee has been poured, leave the filter-holder attached to the dispensing unit until the next coffee is required.

When pouring, beware of the hot parts of the machine, especially the coffee dispensing units, the steam and hot water spouts. Do not put your hands for any reason under the units and the spouts when they are operating.

The grinding of the coffee beans is of fundamental importance to the making of good coffee, and the granular texture of the resulting grounds should be such that it takes 25-30 seconds to produce the beverage. If the coffee is ground too coardsely the coffee will be pale in colour and weak in flavour, with only a very small amount of white cream, and if the grounds are too fine, the coffee will be dark with no cream. Good coffee can only be made if the beans are freshly and uniformly ground (only possible when the blades of the coffee grinder are sharp) and are then measured out into the correct quantities (roughly 6 grams per measure).
The importance of freshly ground coffee beans is due to the fact that once ground, they rapidly lose their aromatic qualities, and fats present in the beans go rancid.

8.2. Preparing cappuccino (Fig.8)

- Make cup of cappuccino with the express coffee.
- Use a high and narrow jug, half-filled with milk.
- Place the jug under the spout so that the nozzle touches the bottom.
- Turn on the steam tap (6 - Fig.6) and lower the jug so that the nozzle is almost at the surface of the milk.
- Continuously move the jug up and down so that the nozzle moves in and out of the milk, causing it to froth.
- Turn off the steam tap and pour the milk into the cup.

⚠ *Immediately after carrying out this operation, clean the spout with a sponge or a clean cloth so that the milk does not dry on it. Be careful as the spout is hot and may burn your hand.*

8.3. Heating a beverage

- Immerse the steam spout into the liquid to be heated.
- Gradually turn on the steam tap 6 (Fig.6); the steam that bursts in the liquid heats it to the desired temperature.
- Turn off the steam tap when the desired temperature has been reached.

⚠ *Immediately after carrying out this operation, clean the spout with a sponge or clean cloth. Be careful as the spout is hot and may burn your hand.*

8.4. Preparing tea, camomile, etc.

- Place the jug under the hot water spout and turn the water tap 5. When the desired quantity has been obtained, turn off the tap.
- Add the beverage desired.

When purified water is used, these beverages often assume a darker colour.
Should the user prefer a lighter coloured drink, draw fresh water from an ordinary tap and proceed with the heating phase as described in point 8.3.

9. ADJUSTMENT AND SETTING OF THE DOSE (where available)

9.1. Models E1

It is possible to adjust the dose of coffee dispensed E1 models.

9.1.1. Adjusting the dose

The coffee dose adjustments are made by acting on the group keyboads with machine at rated pressure.

1 Press the button **E** on the panel and hold it down for 8-10 seconds until water stops flowing from the dispensing unit and the led of the continuons button begins flashing.

2 It is necessary to act as to make 1 or 2 cups in order to reach the correct coffee amount adjustment in the cup.

3 Put the filter-holder (with ground coffee) on the left unit and the cup under the spout.

4 Operate the selected button (i.e. button **A** for one small cup).

5 One the required coffee amount in the cup has been reached, press the stop button **E**. Coffe will stop pouring and the microprocessor will store the dose.

6 Press the continuous button **E** again; the led will go out and the machine will store the new quantity.

7 Make the coffee and check the cup amount in order to check that programming is correct.

If some doses have to be changed (**B-C-D**), once at point 5 repeat the instructions in points 3-4-5 for each dose, remembering to use the filter-holder with relevant filter and freshly ground coffee.
Then carry out point 6 and repeat point 7 to check all changed doses.

10. ADVANCED FUNCTIONS ELECTRONIC CARD E06

10.1. Heater pressure regulation from push-button panel

With card E06 it is possible to regulate heater pressure directly from the push-button panel without any need whatsoever of a technician to intervene on the internal electronics of the machine
This is possible thanks to an electronic pressure transducer that detects heater pressure in real time.

To enter the regulation menu proceed as follows:

- Switch off the machine.
- Keeping push-button **E** of the first group pressed (fig. 6) switch on the machine.
- Push-buttons **A** and **B** will light up to indicate 1-bar default regulation.

In this menu, only push buttons **A, B, C, D** (fig. 6) of the first group are active with the following functions:
A = Push button + (pressure increase with 0.1-bar step).
B = Push button – (pressure decrease with 0.1-bar step).
C = 1 bar (factory set at 1 bar).
D = ESC (regulation save and exit from menu).

To increase pressure

Press push button **A**, considering that each time it is pressed, heater pressure increases by 0.1-bar step up to a maximum 1.4 bars.

Pressure increases instantly (regulation visible by means of heater pressure gauge).

To decrease pressure

Press **B**, considering that each time it is pressed pressure decreases in real time by 0.1 bar step to a maximum of 0.6 bars.

Opening the steam head, the new pressure regulation can be assessed immediately by means of the heater pressure gauge.

Push buttons **A** and **B** flash to indicate setting of heater pressure as follows:

LED PUSH BUTTON A	LED PUSH BUTTON B	PRESSURE [bar]
ON	4 flashes	0,6
ON	3 flashes	0,7
ON	2 flashes	0,8
ON	1 flash	0,9
ON	ON	1,0
1 flash	ON	1,1
2 flashes	ON	1,2
3 flashes	ON	1,3
4 flashes	ON	1,4

By pressing button **C** the factory 1-bar regulation is set.

After having regulated the desired pressure, press **D** to save the setting and quit the menu.

ATTENTION: *during programming, water dispensing is interrupted while heater pressure control is in use.*

10.2. Auto-test components

Electronic card E 06 foresees auto-testing with which it is possible to verify operation of the electric/electronic components of the machine one by one.
In order to utilise this function it is necessary to enter the electronic card by dismantling the left panel of the machine (a descriptive label of the auto-test function is attached to the inside of the panel).
The sequence is guided by means of the display at the centre of the electronic card.

Since the auto-test is carried out on the open machine, be careful not to touch the parts under voltage.

To enter the auto-test menu proceed as follows:

- Switch off the machine.
- Keeping push button **A** of the first group pressed (fig. 6) switch on the machine.
- Push buttons **A, B, C** and **D** (fig. 6) light up and the card display indicates 0 (auto-test menu in operation).

In this menu only push buttons **A, B, C, D** of the first group operate with the following functions:

A = Push button + (increases the number/letter corresponding to the component to be activated).

B = Push button – (decreases the number/letter corresponding to the component to be activated).

C = Enter (component activation).

D = ESC (quit component activation).
During activation of the component, the display point will flash.
Each value indicated on the display corresponds to the auto-test of the following components:

0 = auto-test ON

1 = electro-valve group 1 (ON for 3 seconds)

2 = electro-valve group 2 (ON for 3 seconds) (*)

3 = electro-valve group 3 (ON for 3 seconds) (*)

4 = electro-valve hot water supply
(ON for 3 seconds) (*)

5 = electro-valve charge (ON for 3 seconds)

6 = pump motor (ON for 3 seconds)

7 = 1st heater resistance element (ON for 5 seconds) (**)

8 = 2nd heater resistance element (ON for 5 seconds) (**)

9 = 3rd heater resistance element (ON for 5 seconds) (**)

A = push-button panel/LED (pressing each button, the corresponding LED flashes)
B = volumetric meter group 1 (100-pulse supply)
C = volumetric meter group 2 (100-pulse supply) (*)
D = volumetric meter group 3 (100-pulse supply) (*)
E = heater level (water charge if level is not sufficient)
F = pressure transducer (heater resistance ON until heater pressure set-point is reached)

(*) Only for predisposed machines.
(**) Only for machines with star resistance connection.

Some of the auto-test operations involve the dispensing of hot water and steam; take care in order to avoid possible burns.

Push buttons **A** and **B** (fig. 6) scroll display numbers and letters after being positioned on the letter corresponding to the component to be tested. Press **C** to activate;
Push-button **D** quits component activation.

To quit auto-test menu switch off the machine then switch on again.

Note: Press esc to quit operations **A, E** and **F**
During auto-test, brewing will be interrupted and the heater will not be fed (except for test **F**).

10.3. Diagnostic programming

Electronic card E 06 allows the operation of diagnostic programming with which possible machine failures or malfunctions can be signalled.

In order to utilise this function it is necessary to access the electronic card by dismantling the left panel of the machine (a descriptive label of the auto-test function is attached to the inside of the panel).

As the use of diagnostic programming is carried out on the open machine, take care not to touch the parts under voltage).

Malfunctions are visualised on the display situated at the centre of the electronic card.

Electronic card E 06 allows the operation of diagnostic programming with which possible machine failures or malfunctions can be signalled.

In order to utilise this function it is necessary to access the electronic card by dismantling the left panel of the machine (a descriptive label of the auto-test function is attached to the inside of the panel).

As the use of diagnostic programming is carried out on the open machine, take care not to touch the parts under voltage).

Malfunctions are visualised on the display situated at the centre of the electronic card

Possible failures in course are indicated on the electronic card display by means of numbers or letters (in case of more than one failure simultaneously, the corresponding numbers/letters are alternately displayed):

1 = Time-out Heater filling level: time limit for correct heater filling has been exceeded.

2 = Time-out Heater pressure set-point: the time limit to reach heater pressure set-point has been exceeded

3 = Electronic card 12Vdc short: short circuit in the electronic card E 06

4 = Capacity level sensor 12Vdc short: capacity level sensor supply has short-circuited. (*).

5 = Pressure transducer 12Vdc short: pressure transducer supply has short-circuited.

6 = Volumetric counter 12Vdc short: short circuit on the supply of volumetric counters.

7 = 5Vdc push-button panel short: the push-button panel has short-circuited.

8 = Transducer/probe short on output signal: short circuit on output signal from the pressure temperature probe / transducer.

9 = Open transducer/probe signal: the output signal from the temperature probe/transducer has been interrupted.

A = Absence of volumetric counter impulses group 1: the volumetric counter of the first group is not transmitting impulses to the electronic card.

B = Absence of volumetric counter impulses group 2: the volumetric counter of the second group is not transmitting impulses to the electronic card. (*).

C = Absence of volumetric counter impulses group 3: the volumetric counter of the third group is not transmitting impulses to the electronic card (*).

(*) Only for predisposed machines.

The failures identified by numbers 1 to 9 block machine utilisation. Apart from the failure being indicated on the display, the push-button panel LED will flash simultaneously informing the user of the malfunction.

After having identified and resolved the failure, switch the machine off and then on again for normal utilisation.

NOTE: *The problems identified with the letters **A, B** and **C** do not interrupt the functions of the machine. They are identified on the display and during dispensing from the corresponding group, the LED of the button pressed will flash.*

11. MAINTENANCE

Maintenance operations have to be carried out when the machine is off and cold and the plug is disconnected. Some particular operations have to be effected when the machine is operating.
Do not clean the machine by using metal or abrasive devices, such as steel wool, metal brushes, needles, etc. or general detergents (alcohol, solvents, etc.)
When necessary, use special detergents for coffee machines that can be bought in specialized service centres.

11.1. Daily (Fig.9)

Use a clean cloth or sponge that does not leave hairs or fluff (preferably cotton or linen).

- Carefully clean the outside surface, following the grain of the satin finish on the parts in stainless steel.
- Clean the steam and hot water spouts, check that the nozzles are not encrusted (if they become encrusted, be careful not to deform or damage them).
- Clean the spray units and the seals under the casing of the delivery units using the special brush supplied
- Remove the filter-holders of the machine and remove the filters and the clamp which secures the filter, use a brush to remove any coffee deposits and rinse with hot water in order to dissolve any grease deposits.

Model S1 TANK

Operation to be carried out when the machine is off and cold and the plug is disconnected.

- Remove the lid on the water-tank;
- Remove the air trap **C** and softener **A** (Fig.7);
- Take out the water-tank, empty and clean it;
- Thoroughly rinse the water-tank and replace it in the machine;
- Place the air trap in its guide and the softener horizontally on the bottom of the water-tank;
- Fill the tank with clean water and close the lid.

If the air trap is not in the correct position, the machine cannot heat or indicate a lack of water in the tank.

11.2. Weekly

Operations to be carried out with the machine operative and under pressure.

- Place the supplied blind filter in the filter-holder, put in a spoonful of detergent in powder for coffee machines and fit the filter-holder in the unit to be cleaned.
- Press the coffee dispensing button and draw water for approx. 30 seconds.
- Stop and start dispensing several times until clean water comes out of the discharge unit tube.
- Remove the filter-holder, take out the blind filter and insert a normal one.Replace the filter-holder on the unit and rinse by drawing water several times.
- Make a coffee to eliminate any unpleasant taste.

Cleaning the filters and delivery heads

Operation to be carried out when the machine is off and cold.

- Prepare a solution of 4 sachets of detergent powder Code **69000124** dissolved in a litre of boiling water in a stainless steel, plastic or glass recipient (**NOT ALUMINIUM OR IRON**).
- Remove the filters and immerse them with the filter holders in the prepared solution, leaving them for at least 10/20 minutes (all night is better).
- Remove them from the container and rinse them thoroughly in running water.

Tank cleaning (Fig.10 - 11)

- Remove the cup-stand grille 1 at 2 (Fig.10) and clean.
- Check and clean the drainage sump 3 (Fig.11), removing any sludge with the help of a spoon.

11.3. Periodical maintenance

Operation to be carried out with the machine under pressure.

- Discharge the water from the boiler with hot water delivery switch 5
- Wait until the machine has returned to heat equilibrium before reuse.

11.3.1. Renewal of water in the boiler (Fig.12)

To be carried out only by qualified personnel.

- Turn off the machine and wait for the pressure in the boiler to diminish (gauge needl on “0”).
- Remove the cup-holder grid.
- Insert a rubber hose (1) into the hose-end fitting (2)
- Loosen the hose-end fitting (2).
- Allow the water to flow out completely; then, close the fitting (2) and remove the rubber hose (1).
- Refill the boiler (paragraph 7.3.).

11.3.2. Regeneration

Softener DP2 - DP4
Regenerate the water softener within the time-limits specified for the softener as follows:

DP2
nr.1 regeneration per month for 500 coffees/day;
nr.2 regenerations per month (once a fortnight) for 1000 coffees/day.

DP4
nr.1 regeneration per month for 1000 coffees/day;
nr.2 regenerations per month (once a fortnight) for 2000 coffees/day.

This table has been drawn up according to a water hardness of 25 degress calculated on the French scale.
See the documentation included with the softener for the instructions for use.

Model S1 TANK (Fig.13)

Operation to be carried out when the machine is off and cold and with the plug disconnected.

To be effected after the consumption of approx.15 litres of water (average hardness calculated as 35 degress on the French scale) or at least once a month.

- Prepare a solution in a glass of water adding three teaspoons of fine salt (the salt must be properly dissolved).
- Drain the water-tank, see point 10.2.
- Slide the softener 1 (Fig.13) off the rubber tubing 2 and turn it over.
- Pour the solution through the filter and the resin, letting it flow down freely.
- Wait about 5 minutes, then hold the softener under a tap and rinse it with water. When the water coming out of the softener is no longer salty, the resins are regenerated and the softener is ready for use once again.
- Put the softener back on the rubber tube and replace it horizontally on the bottom of the tank.
- On completion of this operation, the machine can be started up again by repeating the procedure described in paragraph 7.3.

12. STOPPING THE MACHINE

A - Temporary stop

- Carry out cleaning and maintenance operations.
- Wind up the cable and fasten it to the machine with sticky tape.
- Cover the machine and place it in a dry room. Do not leave it exposed to atmospheric agents and do not allow it to be touched by children or unift persons.

To disconnect from the main power supply, consult qualified personnel.

B - Definitive stop

- Besides carrying out the operations necessary for a temporary stop, cut off the cable, pack the machine in cardboard, polystyrene or other packing material and consign it to firms authorized for its disposal or to second-hand goods dealers.

13. PROBLEMS AND REMEDIES

Check operations to be carried out by the user with the plug disconnected.
For any type of problem or inconvenience not specifically indicated, disconnect the plug and contact our service centre without attempting any direct repairs.

A) The machine does not start:
- *check that the plug is connected;*
- *In case of power failure wait for the power to return and check if the earth leakage protection circuit breaker or the main switch is on;*
- *check the condition of the plug and the supply cable; if damaged have them replaced by qualified personnel.*

B) There is water under the machine:
- *check that the drainage tray is not obstructed.*

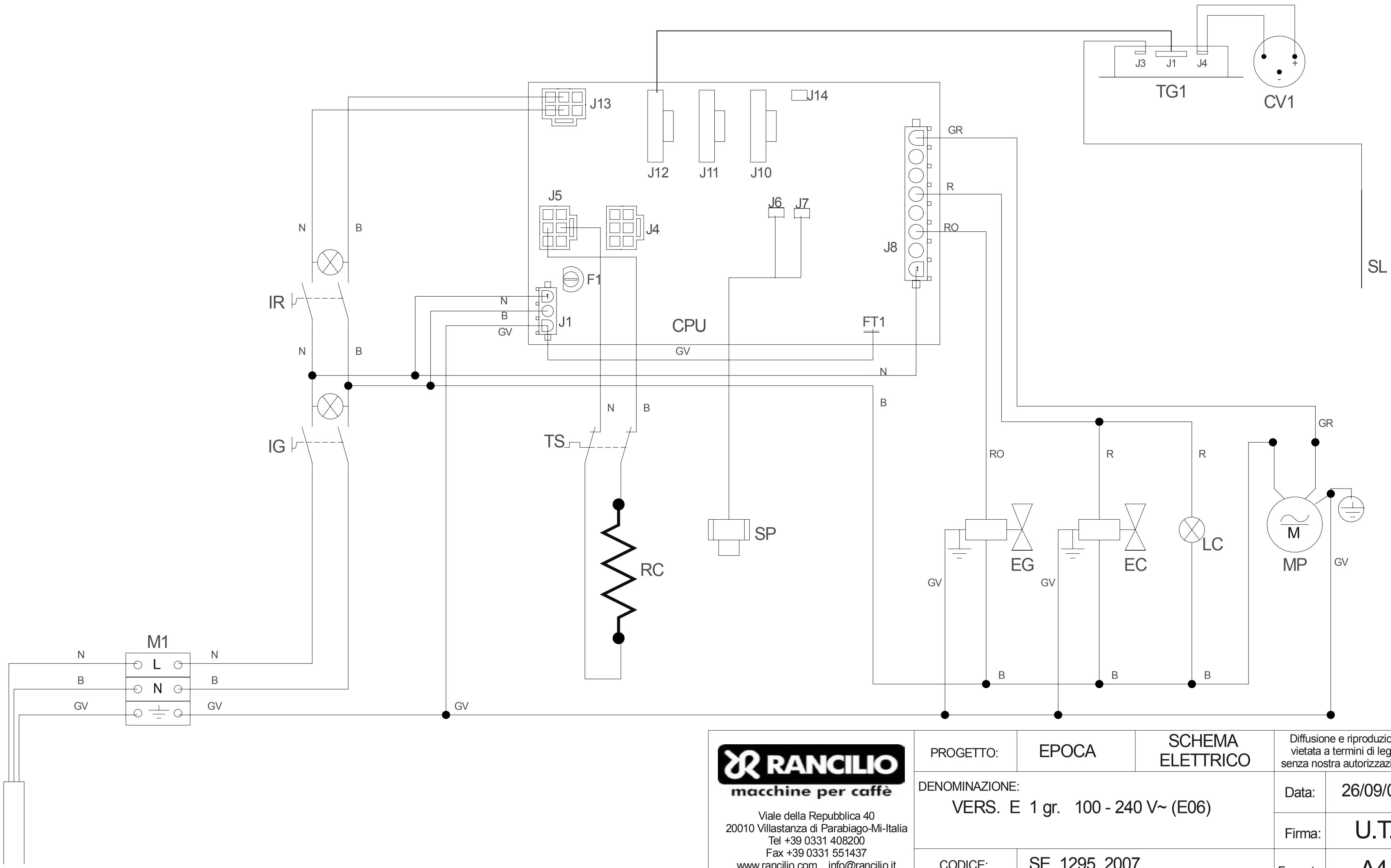
C) Slow dispensing:
- *check that the filters and delivery heads are clean;*
- *check that the coffee is not too finely ground.*

D) Irregular steam delivery:
- *check that the nozzles are not obstructed.*

SCHEMI ELETTRICI
SCHEMAS ELECTRIQUES
SCHALTPLANE
WIRING DIAGRAMS
ESQUEMAS ELECTRICOS
ESQUEMA ELÉTRICO

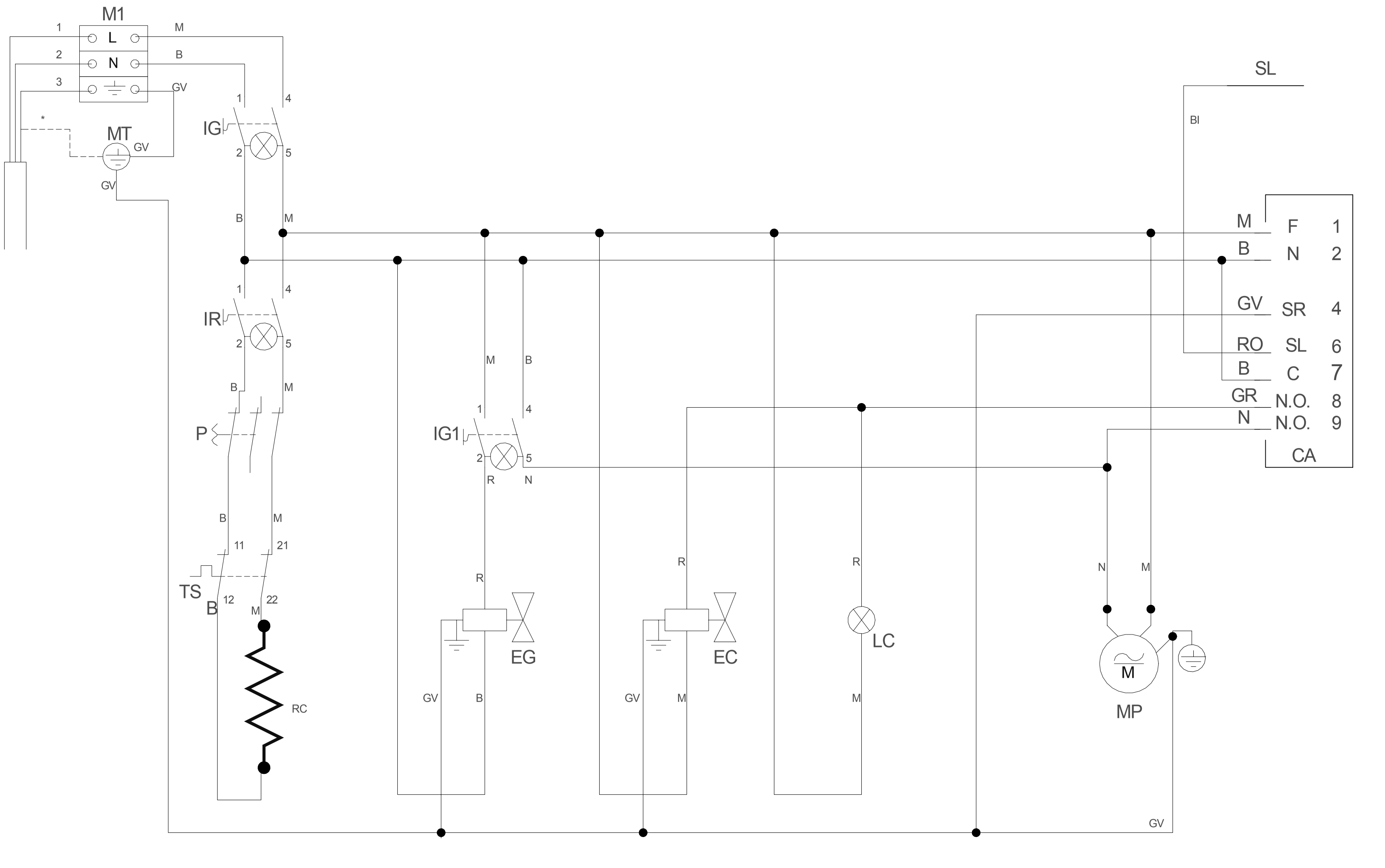
		IT	FR	DE	EN	ES	PT
CA	=	Centralina autolivello	*Controle de niveau de l'eau*	Wasserniveaukont rolle	*Water level control*	Transd. autonivel	*Central auto nível*
CPU	=	Scheda CPU	*Fiche CPU*	Karte CPU	*CPU Board*	Tarjeta CPU	*Placa CPU*
CV	=	Contatore volumetrico	*Compteur volumetrique*	Volumenzaehler	*Flow Meter*	Contador volum.	*Contador volumétrico*
EA	=	Elettrovalvola acqua	*Electrovanne eau*	Wasserelektroventil	*Water electrovelve*	Electrovalvula agua	*Válvula Elétrica da água*
EAR	=	Elettrovalvola aria	*Electrovanne air*	Luftelektroventil	*Air electrovalve*	Electrovalvula aire	*Válvula Elétrica do ar*
EC	=	Elettrovalvola carico	*Electr. de chargement*	Speisungselektroventil	*Feeding electrovalve*	Electrovalv. carga	*Válvula Elétrica abast.*
EE	=	Elettr. Economizzatore	*Electr. economizeur*	Ekonomiserelektroventil	*Economizer electr.*	Electr. Economizador	*V.Eletr. Economizador*
EG	=	Elettrovalvola gruppo	*Electr. du groupe*	Gruppeelektroventil	*Group Electrovalve*	Electrovalvula grupo	*Válvula Elétrica grupo*
EV	=	Elettrovalvola vapore	Electrovanne vapeur	Dampfelektroventil	*Steam valve*	Electrovalvula vapor	*Válvula Elétrica vapor*
F	=	Fusibile	*Fusible*	Sicherung	*Fuse*	Fusible	*Fusível*
IG	=	Interruttore generale	*Interrupteur general*	Hauptschalter	Main switch	Interruptor general	*Interruptor geral*
IG1-4	=	Interruttori gruppo	*Interrupteurs groupe*	Gruppenschalter	*Group switches*	Interruptores grupo	*Interruptores do grupo*
IA	=	Interruttori acqua	*Interrupteurs eau*	Wasserschalter	*Water switches*	Interruptores agua	*Interruptores da água*
IR	=	Interruttore Resistenza	*Interrupteur resistance*	Heizungsschalter	*Resistance Switch*	Interruptor resist.	*Interruptor da Resist.*
IS	=	Interruttore scaldatazze	*Interrupteur chauffe tasses*	Schalter Tassenwärmer	*Cup heating switch*	Interruptor calienta tazas	*Interruptor aquec. xícaras*
LC	=	Lampada livello	*Lampe niveau*	Lampe für Wasserstand	*Level lamp*	Lámpara de nivel	*Lâmpada nível*
M	=	Morsettiera allacciam.	*Boit a bornes pour* branchement	Anschhlussklemmleiste	*Mains Power Connection*	Bloque de terminales	Conj. bornes ligação
MP	=	Motore pompa	*Moteur pompe*	Pumpen motor	*Motor Pump*	Motor bomba	*Motor da bomba*
MRE	=	Micro Relé pompa	*Micro Relé pompe*	Micro Relé pumpen	*Pump micro Comtactor*	Micro Relé bomba	*Micro Relé bomba*
MT	=	Morsetto di terra	*Borne du sol*	Erdklammer	*Earth connection*	Conexion de tierra	*Borne do terra*
P	=	Pressostato	*Pressostat mecanique*	Mech. druckwaechter	*Mechanic pressure* switch	Presostato mecanico	*Interrup. Mec. Pressão*
RC	=	Resistenza caldaia	*Resistance chaudiere*	Kesselheizung	*Boiler Heating Resist.*	Resist. Caldera	*Resistência da caldeira*
RP	=	Relé pompa	*Relé pompe*	Relé pumpen	*Pump contactor*	Relé bomba	*Relé bomba*
RR	=	Relè macanza acqua	*Relé manque d'eau*	Relé Kein Wasser	*Water shortage relè*	Relé falte de agua	*Relé falta de água*
RS	=	Resistenza scaldatazze	*Resistance chauffe tasse*	Tassen warmerheizung	*Cups Heating Resistance*	Resist. Calienta tazas	*Resistência aquec. xícaras*
SA	=	Scheda autolivello	*Carte autoniveau*	Wasserstandkarte	*Autolevel board*	Ficha de autonivel	*Placa auto nível*
SL	=	Sonda Livello	*Sonde niveau*	Standfühler	*Level feeler*	Sonda nivel	*Sonda nível*
SP	=	Sensore di pressione	*Capteur de pression*	Drucksensor	Autolevel board	Detector de presión	*Sensor de pressão*
ST	=	Sonda temperatura	*Sonde Temperature*	Temperatur Sonde	*Temperature Probe*	Sonda de temp.	*Sonda temperatura*
STS	=	Sonda temp.TS/TSC	*Sonde Temperature TS/TSC*	Temperatur Sonde TS/TSC	*Temperature Probe TS/TSC*	Sonda de temp. TS/TSC	*Sonda temperatura TS/TSC*
TA	=	Tasto acqua	*Touche eau*	Wassertaste	*Key water*	Tecla agua	*Tecla água*
TF	=	Tastiera funzioni/servizi	*Clavier function/service*	Funktion/Dienst druck	*Function/service keyboard*	Botonera/Funciòn/ servicio	*Teclado funções/ serviços*
TG	=	Tastiera gruppo	*Clavier groupe*	Gruppedruckknoepfe	*Group Keyboard*	Botonera grupo	*Teclado grupo*
TM	=	Trasformatore	*transformateur*	Transformator	*Transformer*	Transformador	*Trasformador*
TP	=	Tastiera programmazione	*Clavier de programmation*	Programmiertastatur	*Program Keyboard*	Botonera programación	*Teclado programação*
TR(SR)	=	Teleruttore	*Télérupteur*	Fernschalter	*Transformer*	Telerruptor	*Contador*
TS	=	Termostato di sicurezza	*Thermostat de sécurité*	Sicherheitsdruckwächter	Safety thermostat	Termóstato de seguridad	*Termostato de segurança*
TTSC	=	Tastiera TSC	*Clavier TSC*	Tastatur TSC	*TSC keyboard*	Botonera TSC	*Teclado TSC*
VP	=	Pompa a vibrazione	*Pompe à vibration*	Vibrationspumpe	*Vibration pump*	Bomba de vibración	*Bomba com vibração*

Ar	=	Arancio	*Orange*	Orange-farbig	*Orange*	Naranja	*Laranja*
B	=	Blu	*Bleu*	Blau	*Blue*	Azul	*Azul*
Bi	=	Bianco	*Blanc*	Weiss	*White*	Blanco	*Branco*
BiB	=	Bianco-Blu	*Blanc-Bleu*	Weiss-Blau	*White-Blue*	Blanco-Azul	*Branco-Azul*
BiN	=	Bianco-Nero	*Blanc-Noir*	Weiss- Braun	*White-Black*	Blanco-Negro	*Branco-Preto*
G	=	Giallo	*Jaune*	Gelb	*Yellow*	Amarillo	*Amarelo*
GV	=	Giallo-Verde	*Jaune-vert*	Gelb-gruen	*Yellow-green*	Amarillo-verde	*Amarelo-Verde*
Gr	=	Grigio	*Gris*	Grau	*Grey*	Gris	*Cinza*
M	=	Marrone	*Marron*	Braun	*Brown*	Marron	*Marrom*
N	=	Nero	*Noir*	Schwarz	*Black*	Negro	*Preto*
R	=	Rosso	*Rouge*	Rot	*Red*	Rojo	*Vermelho*
Ro	=	Rosa	*Rose*	Rosa	*Rose*	Rosado	*Rosa*
V	=	Verde	*Vert*	Gruen	*Green*	Verde	*Verde*
Vi	=	Viola	*Violette*	Violett	*Violet*	Morado	*Roxo*



PROGETTO:	EPOCA	SCHEMA ELETTRICO	Diffusione e riproduzione vietata a termini di legge senza nostra autorizzazione.
DENOMINAZIONE: VERS. E 1 gr. 100 - 240 V~ (E06)			Data: 26/09/07
			Firma: U.T.
CODICE:	SE_1295_2007		Formato: A4

RANCILIO macchine per caffè
Viale della Repubblica 40
20010 Villastanza di Parabiago-Mi-Italia
Tel +39 0331 408200
Fax +39 0331 551437
www.rancilio.com info@rancilio.it

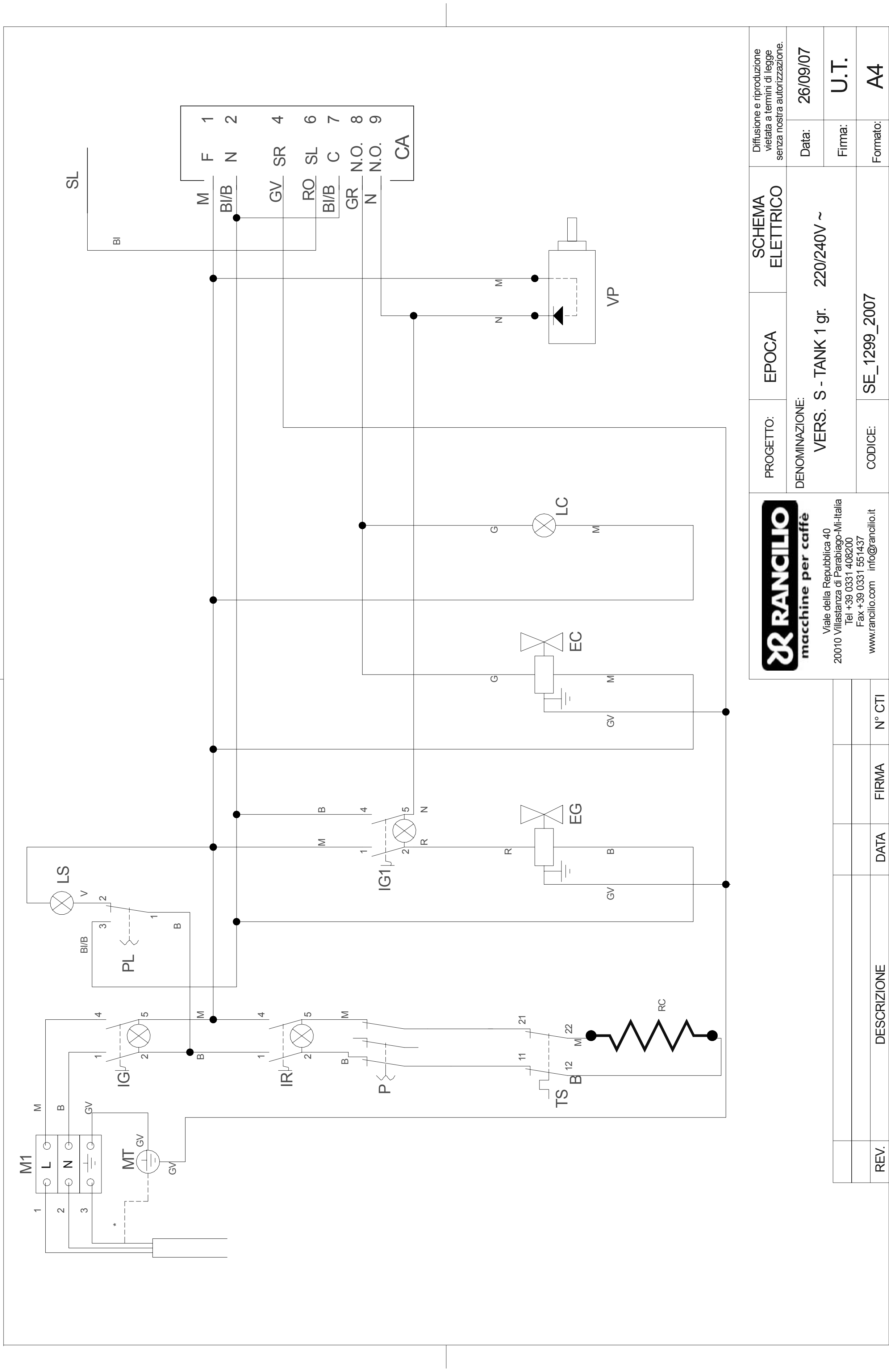


REV.	DESCRIZIONE	DATA	FIRMA	N° CTI

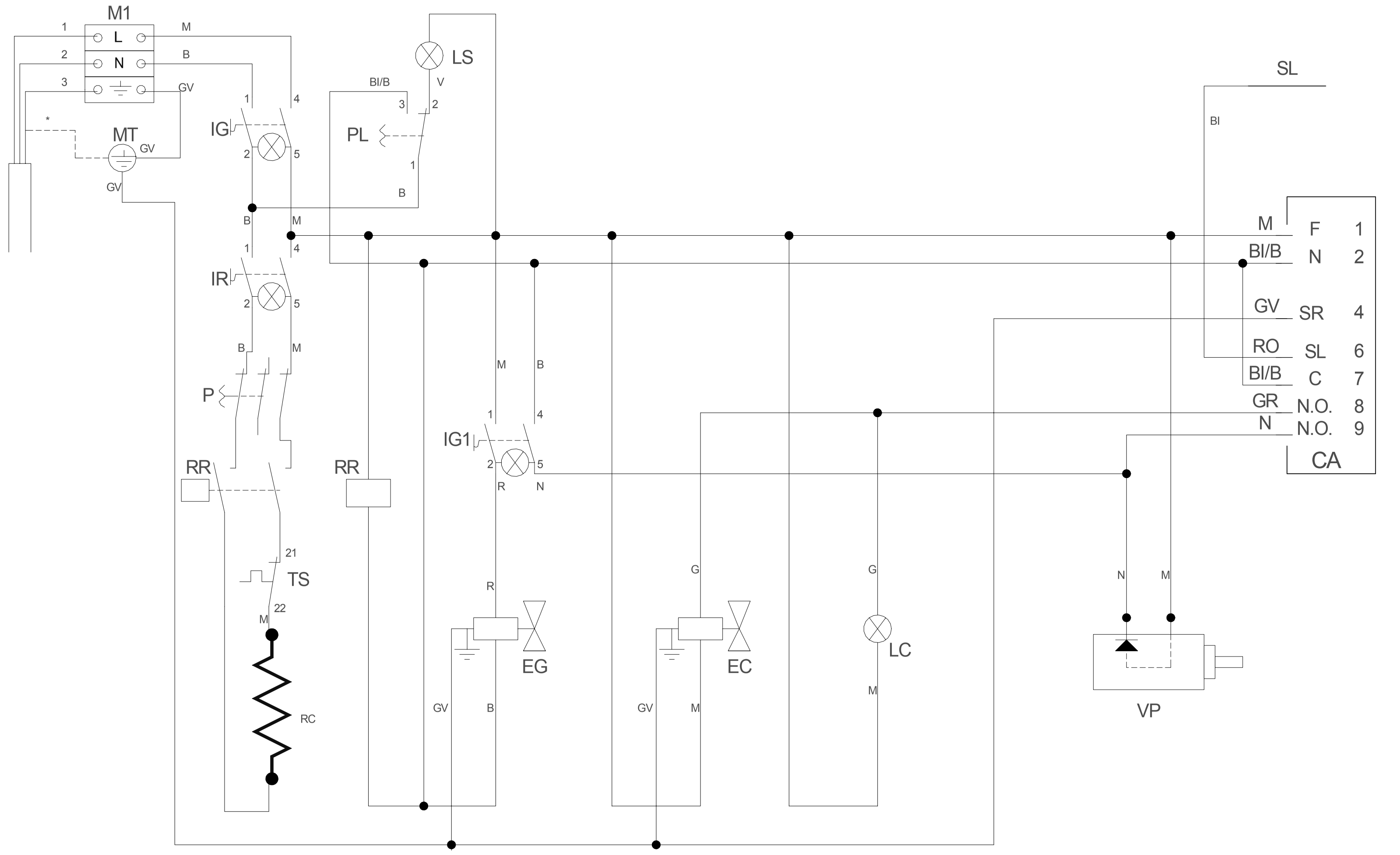
RANCILIO
macchine per caffè

Viale della Repubblica 40
20010 Villastanza di Parabiago-Mi-Italia
Tel +39 0331 408200
Fax +39 0331 551437
www.rancilio.com info@rancilio.it

PROGETTO:	EPOCA	SCHEMA ELETTRICO	Diffusione e riproduzione vietata a termini di legge senza nostra autorizzazione.
DENOMINAZIONE: VERS. S 1 gr. 110/240V ~		Data:	26/09/07
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CODICE:	SE_1298_2007	Formato:	A4



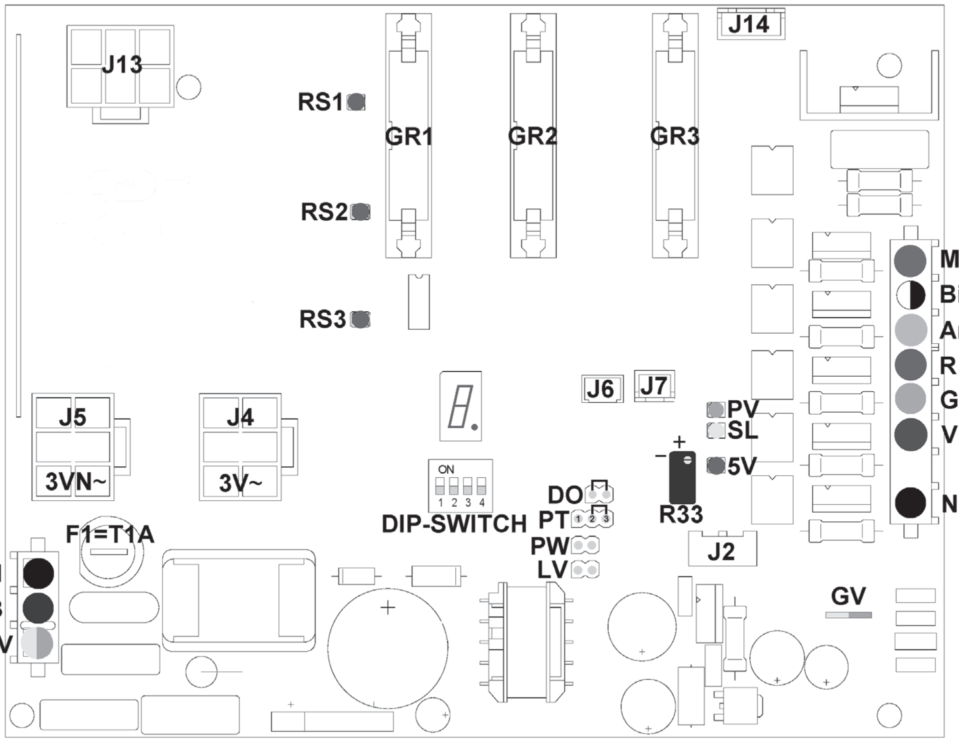
SCHEMA ELETTRICO
PROGETTO: EPOCA
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VERS. S - TANK 1 gr. 220/240V ~
CODICE: SE_1299_2007
Data: 26/09/07
Firma: U.T.
Formato: A4
Diffusione e riproduzione vietata a termini di legge senza nostra autorizzazione.
RANCILIO macchine per caffè
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20010 Villastanza di Parabiago-Mi-Italia
Tel +39 0331 408200
Fax +39 0331 551437
www.rancilio.com info@rancilio.it
REV. DESCRIZIONE DATA FIRMA N° CTI
SL
CA
VP
LC
EC
EG
LS
PL
IG1
IG
IR
P
TS
RC
M1
MT
F N SR SL C N.O. N.O.
1 2 4 6 7 8 9
M BI/B GV RO BI/B GR N



RANCILIO macchine per caffè Viale della Repubblica 40 20010 Villastanza di Parabiago-Mi-Italia Tel +39 0331 408200 Fax +39 0331 551437 www.rancilio.com info@rancilio.it	PROGETTO:	EPOCA	SCHEMA ELETTRICO	Diffusione e riproduzione vietata a termini di legge senza nostra autorizzazione.	
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				Firma:	U.T.
	CODICE:	SE_1322_2007		Formato:	A4

REV.	DESCRIZIONE	DATA	FIRMA	N° CTI

SCHEDA ELETTRONICA - CARTE ÉLECTRONIQUE - ELEKTRONIKKARTE - ELECTRIC BOARD - TARJETA ELECTRÓNICA - PLACA ELETRÔNICA (E 1)



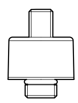
LV	Sensori livello	Level sensors	Capteurs de niveau	Pegelstandsensoren	Detectores de nivel	Sensores de nivel
	Sensore capacitativo	Capacitive sensors	Capteur capacitif	Kapazitiver Sensor	Detector capacitivo	Sensor capacitivo
	Sensore resistivo	Resistive sensors	Capteur résistif	Kapazitiver Sensor	Detector resistivo	Sensor resistivo
PT	Sensore caldaia	Sensors boiler	Sonde chaudière	Sensor-Dampfkessel	Sensor de caldera	Sensor da caldeira
	1-2 Sonda temperatura PTC	1-2 PTC Temperature probe	1-2 Sonde température PTC	1-2 Temperatursonde PTC	1-2 Sonda temperatura PTC	1-2 Sonda temperatura PTC
	2-3 Trasduttore di pressione	2-3 Pressure trasducer	2-3 Transducteur de pression	2-3 Druckgeber	2-3 Transductor de presión	2-3 Transdutor de pressão
DO	Programmazione dosi	Dose program	Programme doses	Programmier. der Dosierungen	Programa dosis	Programar doses
	Abilitata	Enabled	Habilitée	Freigegeben	Habilitado	Habilitada
	Disabilitata	Disabled	Non habilitée	Nicht freigegeben	No habilitado	Não habilitada
PW	Potenza resistenza	Power resistance	Puissance résistance	Widerstandskraft	Potencia de la resistencia	Potência da resistência
	Piena potenza	Full power	Puissance complète	Volle Leistung	Potencia total	Plena potência
	2/3 di potenza	2/3 power	2/3 de puissance	2/3 der Leistung	2/3 de potencia	2/3 de potência
RS1 RS2 RS3	Alimentazione resistenze	Resistance power supply	Alimentation résistances	Wasserstand im Heizkessel	Alimentación resistencias	Alimentação das resistências
PV	Led Pompa	Pump led	Led pompe	LED Pumpe	Luz testigo bomba	Led da bomba
SL	Livello acqua in caldaia	Boiler water level	Niveau eau dans la chaudiere	Wasserstand im Heizkessel	Nivel agua en la caldera	Nível da água na caldeira
+5V	+ 5 V	+ 5 V	+ 5 V	+ 5 V	+ 5 V	+ 5 V

DIP-SWITCH

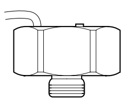
n.1 OFF Regolazione pressione caldaia da tastiera - Réglage de la pression de la chaudière à partir du clavier - Kesseldruckregelung an Tastenfeld - Heater pressure regulation from push-button panel - Regulación de la presión de la caldera desde el teclado - Regulação pressão caldeira através do teclado

n.1 ON Regolazione pressione R33 - Réglage de la pression R33 - Druckregelung R33 - Heater pressure regulation R33 - Regulación de la presión R33 - Regulação pressão R33

n.2 OFF Trasduttore pressione - Transducteur de pression - Druckgeber - Pressure trasducer - Transductor de presión - Transdutor de pressão



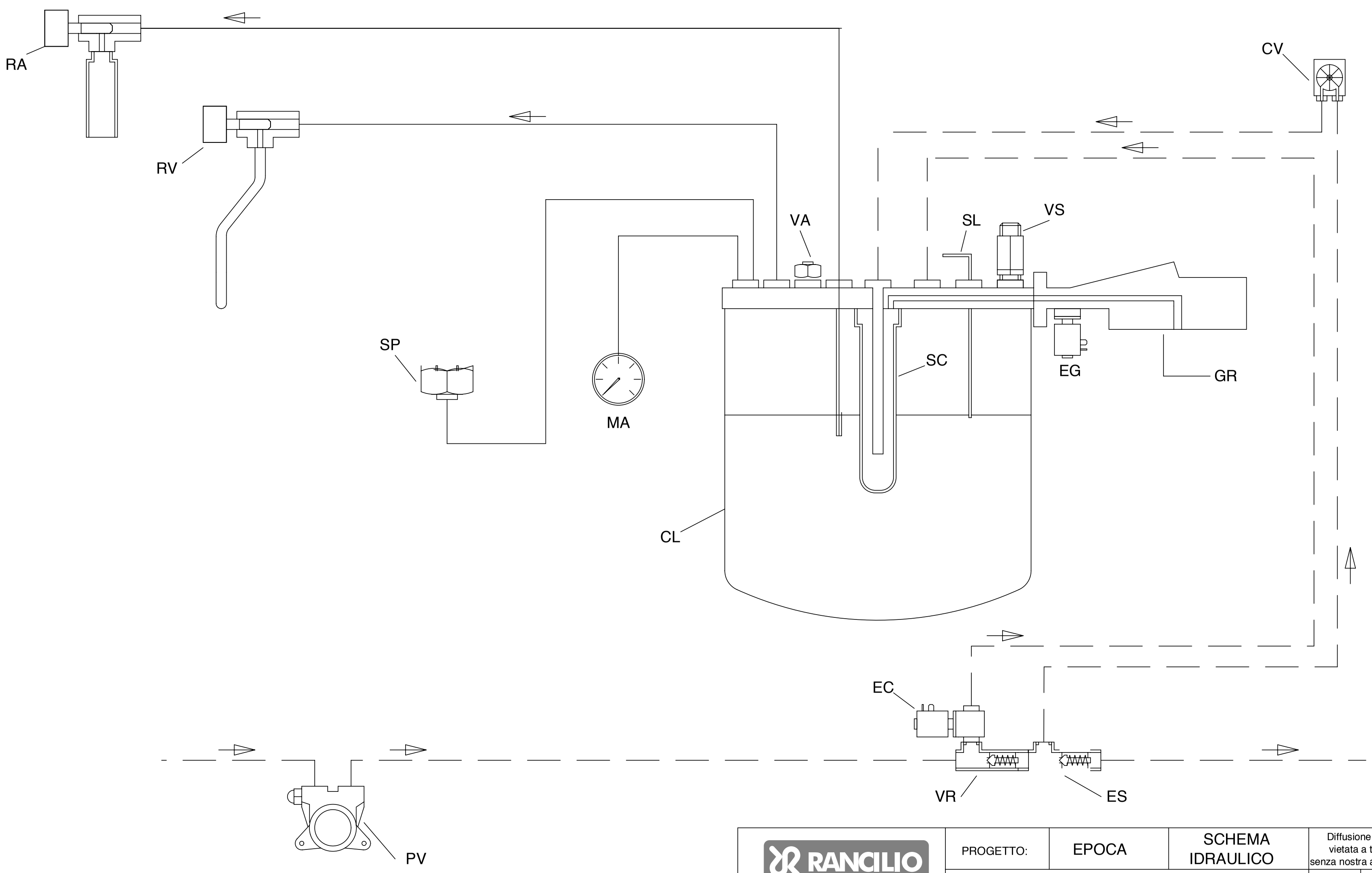
n.2 ON Trasduttore pressione - Transducteur de pression - Druckgeber - Pressure trasducer - Transductor de presión - Transdutor de pressão



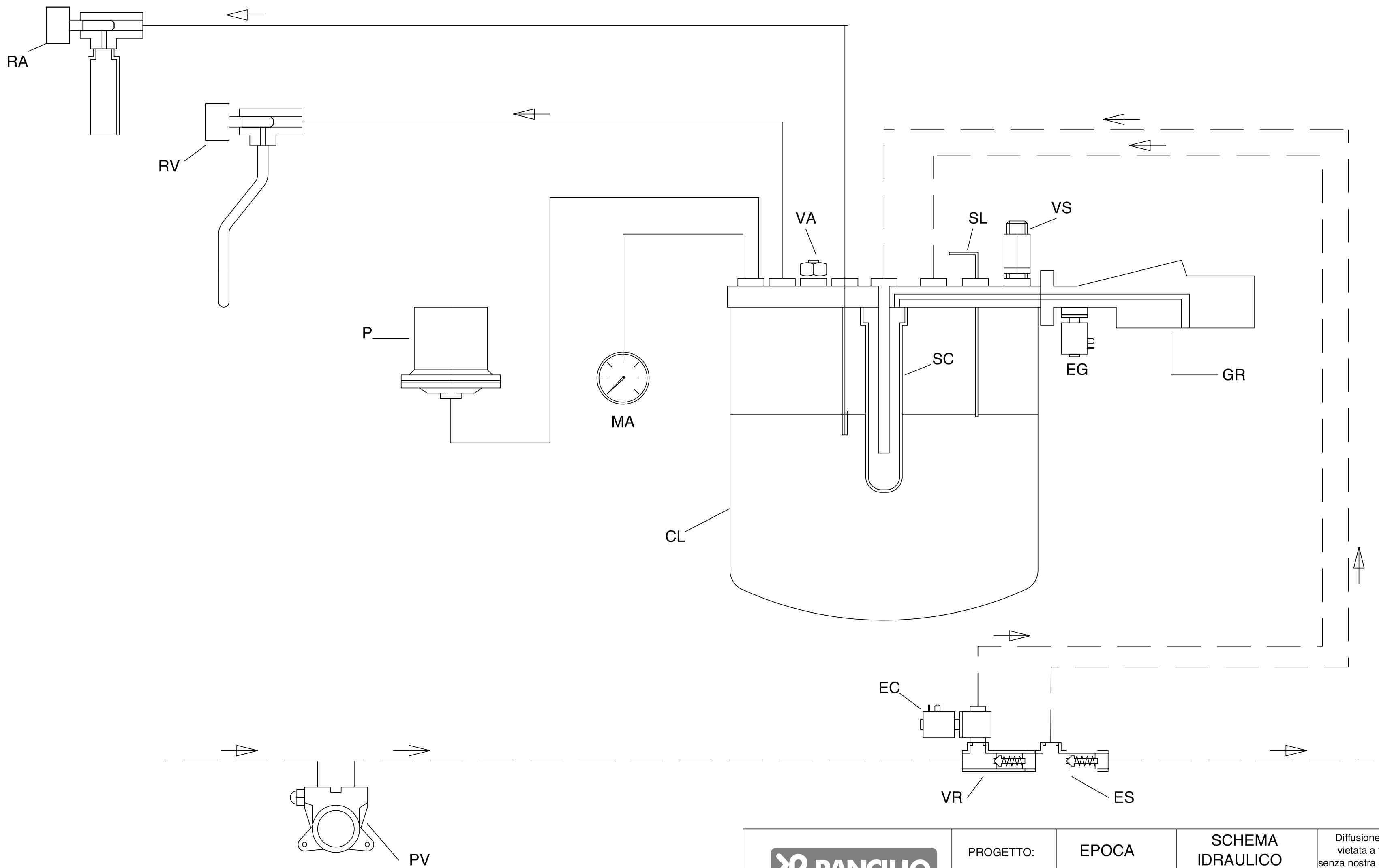
n.3-4 non toccare - do not touch - ne touchez pas - berühren Sie sich nicht - no toque - não toque

SCHEMI IDRAULICI
SCHÉMAS HYDRAULIQUES
HYDRAULIKPLÄNE
HYDRAULIC DIAGRAMS
ESQUEMAS HIDRÁULICOS
ESQUEMA HIDRÁULICO

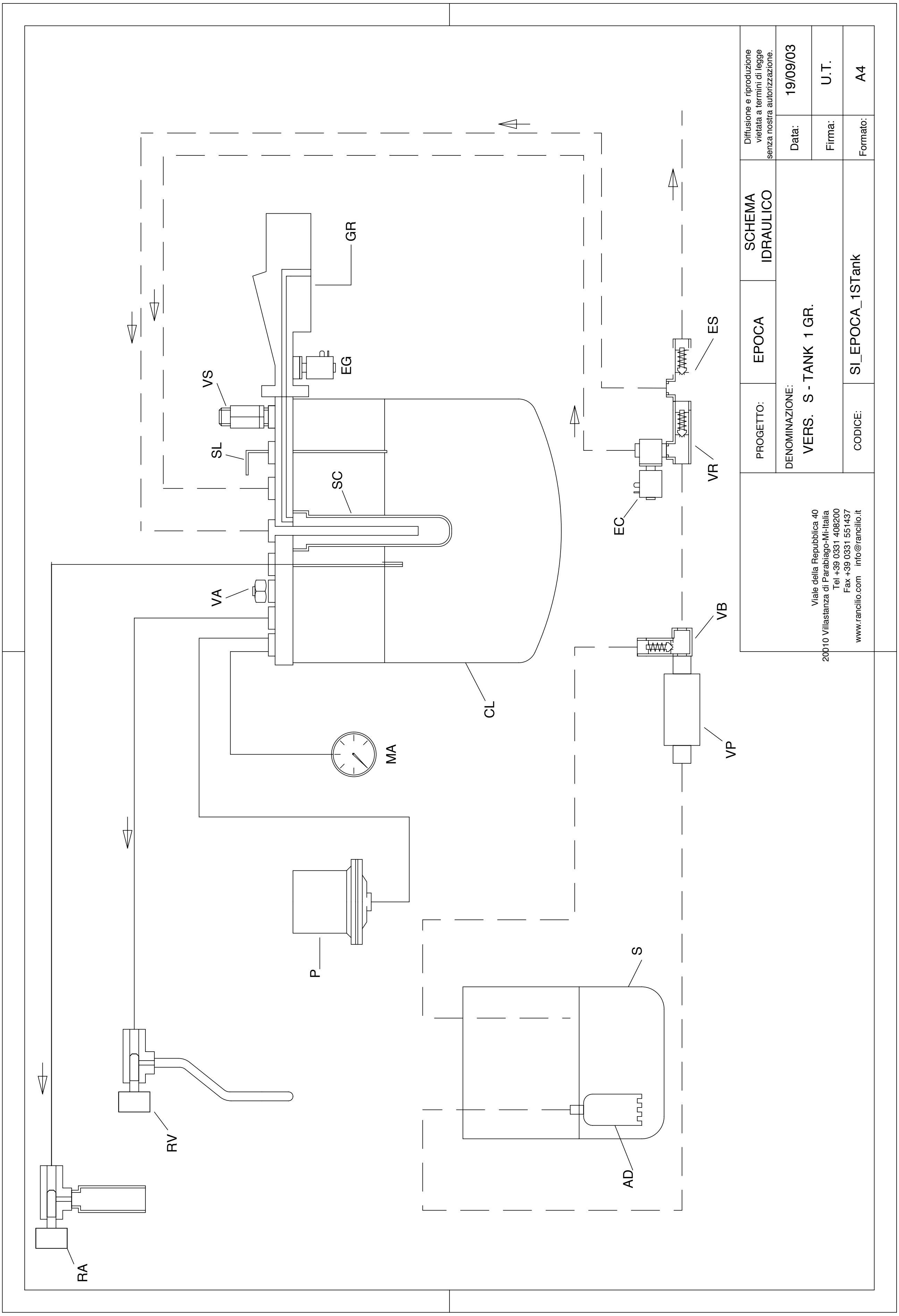
		IT	FR	DE	EN	ES	PT
AD	=	Addolcitore	*Adoucisseur*	Wasserenthärter	*Softener*	Eliminador de caliza	*Descalcificador*
CA	=	Centralina autolivello	*Controle de niveau de l'eau*	Wasserniveaukontrolle	*Water level control*	Transd. autonivel	*Central auto nível*
CL	=	Caldaia	*Chaudière*	Kessel	Boiler	Caldera	*Caldeira*
CV	=	Contatore volumetrico	*Compteur volumetrique*	Volumenzaehler	*Flow Meter*	Contador volum.	*Contador volumétrico*
EA	=	Elettrovalvola acqua	*Electrovanne eau*	Wasserelektroventil	*Water electrovelve*	Electrovalvula agua	*Válvula Elétrica da água*
EAR	=	Elettrovalvola aria	*Electrovanne air*	Luftelektroventil	*Air electrovalve*	Electrovalvula aire	*Válvula Elétrica do ar*
EC	=	Elettrovalvola carico	*Electr. de chargement*	Speisungselektroventil	*Feeding electrovalve*	Electrovalv. carga	*Válvula Elétrica abast.*
EE	=	Miscelatore	*Mélangeur*	Mixer	*Mixer*	Mezclador	*Misturador*
EG	=	Elettrovalvola gruppo	*Electr. du groupe*	Gruppeelektroventil	*Group Electrovalve*	Electrovalvula grupo	*Válvula Elétrica grupo*
ES	=	Valvola di espansione	*valve d'expansion*	Expansionsventil	*exspansion valve*	Válvula de expansión	*Válvula de expansão*
EV	=	Elettrovalvola vapore	*Electrovanne vapeur*	Dampfelektroventil	*Steam valve*	Electrovalvula vapor	*Válvula Elétrica vapor*
GR	=	Gruppo erogatore	*Groupe de distribution*	Brühgruppe	*Group*	Grupo erogador	*Grupo distribuidor*
IL	=	Indicatore livello	*Indicateur de niveau*	Pegelanzeiger	*Level indicator*	Indicador de nivel	*Indicador do nível*
LC	=	Lampada livello	*Lampe niveau*	Lampe für Wasserstand	*Level lamp*	Lámpara de nivel	*Lâmpada do nível*
MA	=	Manometro	*Manomètre*	Manometer	*Manometer*	Manómetro	*Manômetro*
MA1	=	Manometro Pompa	*Manomètre pompe*	Manometer Pumpe	*Manometer pump*	Manómetro bomba	*Manômetro Bomba*
MA2	=	Manometro Caldaia	*Manomètre chaudière*	Manometer Kessel	Manometer boiler	Manómetro caldera	*Manômetro Caldeira*
P	=	Pressostato	*Pressostat mecanique*	Mech. druckwaechter	*Mechanic pressure switch*	Presostato mecanico	*Interrup. Mec. Pressão*
PV	=	Pompa volumetrica	*pompe volumétrique*	Volumetrische Pumpe	*Volumetric pump*	Bomba volumétrica	*Bomba volumétrica*
RA	=	Rubinetto Acqua	*Robinet eau*	Wasserhahn	*Water tap*	Grifo de agua	*Torneira Água*
RL	=	Rubinetto Carico	*Robinet d'arrivée*	Auffüllhahn	*Inlet water tap*	Grifo de carga	*Torneira Abastecimento*
RV	=	Rubinetto Vapore	*Robinet vapeur*	Dampfhahn	*Steam tap*	Grifo de vapor	*Torneira Vapor*
S	=	Serbatoio	*Réservoir*	Behälter	*Tank*	Depósito	*Reservatório*
SA	=	Scheda autolivello	*Fiche autoniveau*	Wasserstandkarte	*Autolevel board*	Ficha de autonivel	*Placa auto nível*
SC	=	Scambiatore di calore	*Échangeur de chaleur*	Wärmaustauscher	Heat-exchanger	Intercambiador de calor	*Intercambiador de calor*
SL	=	Sonda Livello	*Sonde niveau*	Standfühler	*Level feeler*	Sonda nivel	*Placa Nível*
SP	=	Sensore di pressione	*Capteur de pression*	Drucksensor	*Pressure sensor*	Detector de presión	*Sensor de pressão*
ST	=	Sonda temperatura	*Sonde Temperature*	Temperatur Sonde	*Temperature Probe*	Sonda de temp.	*Sonda temperatura*
VA	=	Valvola antidepressione	*Vanne antidépression*	Unterdruckventil	*Antivacuum valve*	Válvula antidepresión	*Válvula anti depressão*
VB	=	Valvola bypass	Vanne bypass	Bypass ventil	*Bypass valve*	Válvula bypass	*Válvula bypass*
VP	=	Pompa a vibrazione	*Pompe à vibration*	Vibrationspumpe	*Vibration pump*	Bomba de vibración	*Bomba com vibração*
VR	=	Valvola di ritegno	*Valve de retenue*	Rückschlagventil	*Check-valve*	Válvula de retención	*Válvula de retenção*
VS	=	Valvola di sicurezza	*Clapet de sûreté*	Sicherheitsventil	*Safety valve*	Válvula de seguridad	*Válvula de segurança*



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GR
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